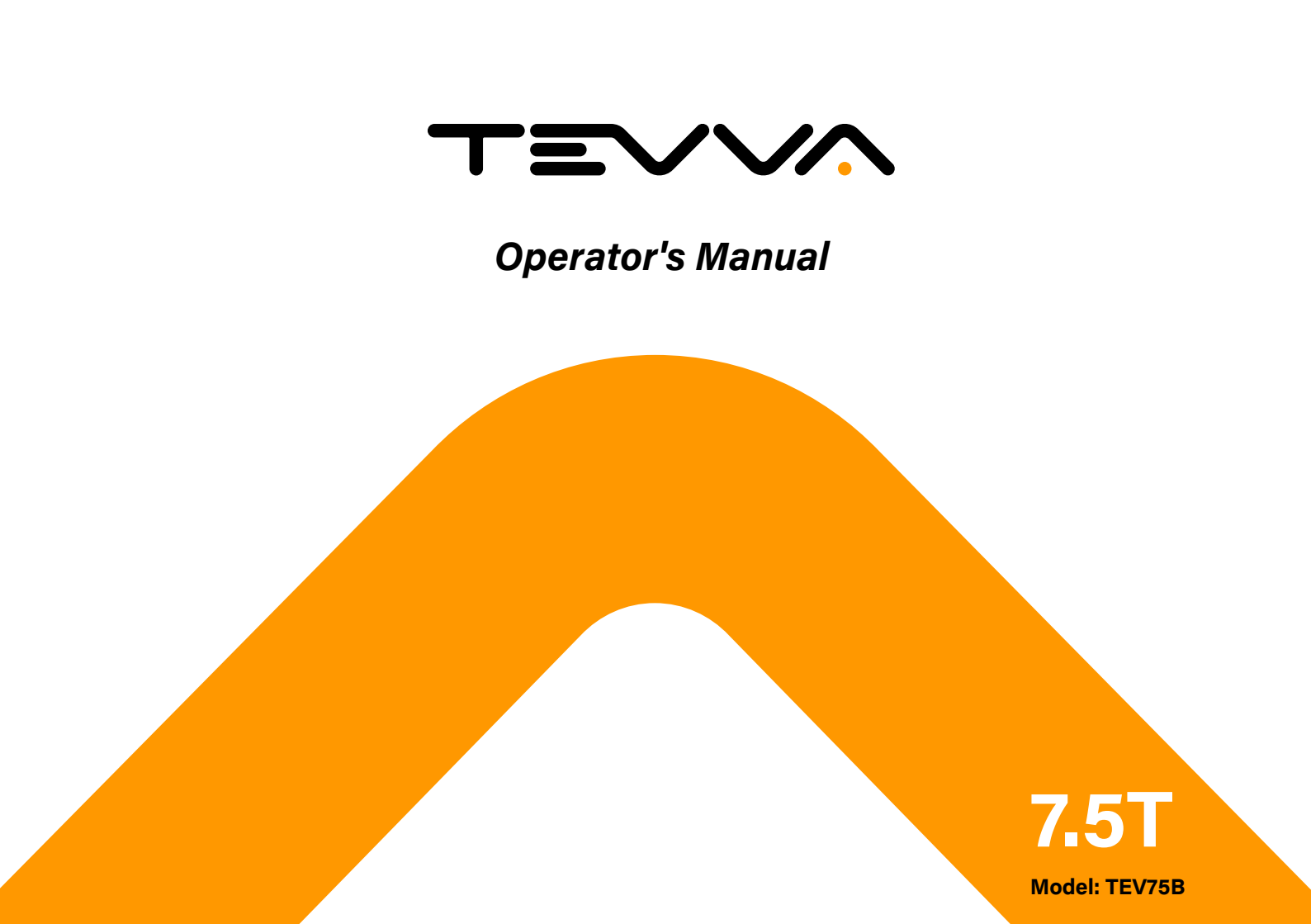
TEVVA
Operator's Manual
7.5T
Model: TEV75B

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Introduction

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Introduction
Information

Please take the time to study the content contained in the vehicle literature. This provides the necessary information for you to get the optimum benefit and driver experience from the vehicle.

The information contained in the vehicle literature covers all vehicle derivatives and optional equipment, some of which may not be fitted to all vehicle models.

The images shown in this publication may not exactly reflect your unique vehicle.

Information About This Document

In the interest of development, the right is reserved to change specifications, design, or equipment, at any time, without notice and without incurring any obligations.

Symbols

You will find the following symbols in this Operator's Manual. These symbols are intended to give you an instant visual message on the type of information that is being displayed.

Warnings	
	A warning draws your attention to activities that could cause injury or death.
Cautions	
	A caution draws your attention to activities that could cause moderate injury or damage to the vehicle.

Environmental Notes	
	Environmental notes give you tips on minimising the impact that you and the vehicle have on the environment.
Notes	
	Notes draw your attention to activities that contain possible risks to the vehicle, provide advice that you may find useful, or give additional information regarding a particular subject.

Operating Safety

Vehicle Use

Observe the following when using the vehicle:

- The safety notes throughout this information
- Road traffic laws and regulations

Electric Vehicle

This vehicle is a pure electric vehicle with 365V. Some parts are equipped with high voltage and marked "be careful of electric shock", avoid contact with these parts.

This sign is a high voltage warning sign. Do not touch any vehicle components that are equipped with this mark.

Information

WARNING: All maintenance and servicing of the high voltage system must only be carried out by qualified personnel. Any repairs or maintenance carried out by unqualified personnel will invalidate any warranty on the equipment and may lead to serious injury or death.

WARNING: Do not touch any of the high voltage components or orange electrical cables on the vehicle. Doing so may cause an electric shock, which may lead to serious injuries or death.

Driving Compartment

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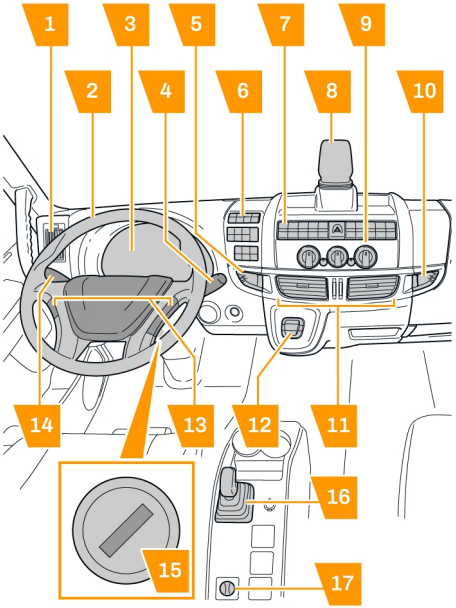
Driving Compartment
Overview

Controls Overview

Dashboard



1. Side air vent. See "Air Vents", page 77.
2. Steering wheel. See "Adjusting the Steering Wheel", page 26.
3. Instrument panel. See "Instrument Panel Overview", page 8.
4. Cruise control. See "Operating the Cruise Control", page 67.
5. Storage compartment. See "Storage Compartment", page 90.
6. Side dashboard controls. See "Dashboard Controls", page 8.
7. Central dashboard controls. See "Dashboard Controls", page 8.
8. Lane Departure Warning System (LDWS) camera. See "Operating the Lane Departure Warning System", page 63.
9. Heating and ventilation controls. See "Heating and Ventilation", page 75.
10. Storage compartment.

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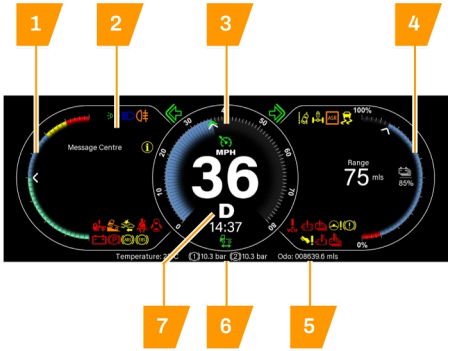
11. Central air vents. See "Air Vents", page 77.
12. Gear selector. See "Selecting a Gear", page 41.
13. Steering wheel controls. See "Steering Wheel Controls", page 25.
14. External lighting, direction indicators, horn, wipers and washers. See "High and Low Beam Headlights", page 28, "Direction Indicators", page 29, "Operating the Horn", page 37 and "Wiper Controls", page 27.
15. Ignition switch. See "Ignition Modes", page 39.
16. Parking Brake. See "Parking Brake", page 43.
17. Differential lock. See "Rear Differential Lock", page 71.

Driving Compartment
Overview

Instrument Panel Overview



The instrument panel consists of the following components:

1. Power demand or regeneration of the HV battery. Red area shows high discharge, green area shows battery regeneration under braking.
2. Message centre.
3. Speedometer.
4. Battery state of charge percentage and battery range estimate in miles/km.
5. Odometer information.
6. Air tank pressure information.
7. Current selected gear.

For more detail on the warning and notification lights, refer to the relevant section. See "Warning and Notification Lights", page 22.

Dashboard Controls

There are two sets of dashboard control switchpacks, central and side.

The position of the central dashboard switchpack is universal.

The position of the side dashboard switchpack is dependent on the hand of drive.

Central Dashboard Controls

NOTE: The position of the switches may vary depending on model version.

NOTE: Some of the switches have an LED indicator that illuminates to confirm selection.

Driving Compartment
Overview

The following switches are permanently fitted:

Hazard warning light

Main current contactor

Reverse alarm sounder

Cabin heater

Side Dashboard Controls

NOTE: The position of the switches may vary depending on model version.

NOTE: Some of the switches have an LED indicator that illuminates to confirm selection.

NOTE: The illustration shown is a left hand drive (LHD) side dashboard. Right hand drive (RHD) side dashboard is similar.

The following switch options may be fitted:

Speed limiter

Rear fog lights

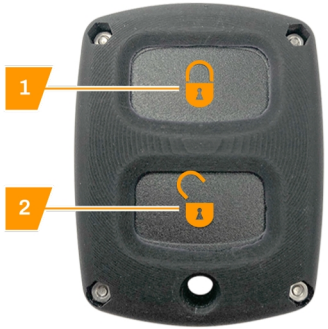
Cab lighting

Lane Departure Warning System

Entering and Exiting the Vehicle

Remote Key

Unlocking



To unlock the doors with the remote key, briefly press the unlock button **(2)** while facing the vehicle.

The indicators will flash to signal the doors have been unlocked.

Locking

To lock the doors with the remote control function, briefly press the lock button **(1)** while facing the vehicle.

The indicators will flash to signal the doors have been locked.

Replacing the Remote Key Battery

WARNING: Do not swallow or put the battery in your mouth. If the remote key battery is swallowed it can cause serious internal burns in just 2 hours and can be fatal. If you think the battery may have been swallowed or placed inside any part of the body, seek medical attention immediately.

WARNING: Keep new and used batteries away from children. If the battery compartment does not close firmly, stop using the product and keep it away from children.

NOTE: A reduction in the operating range of the remote key is a sign the battery requires replacement.

NOTE: Make sure the battery is installed with the correct polarity.

The remote key contains a **CR 2032 3V** lithium coin battery.

Entering and Exiting the Vehicle

To change the battery carry out the following:

1. Remove the four screws that secure the two halves of the key fob casing.
2. Separate the two halves of the key fob to expose the battery.
3. Slide the battery out of the battery holder.
4. Install the new battery with the positive terminal of the battery upwards.
5. Close the two halves of the key fob making sure they couple together correctly.
6. Install and tighten the four key fob casing screws.

Locking and Unlocking

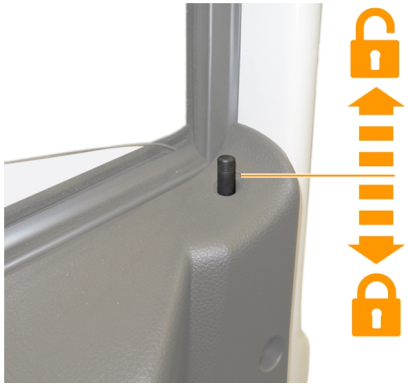
NOTE: To help maintain low voltage battery health; if the vehicle is not in use, make sure both cab doors are properly closed. Failure to do so will prevent the battery isolator from engaging and may result in accelerated lead acid battery depletion.

The vehicle cab is equipped with two access doors, these have symmetrical exterior and interior mechanisms for locking and unlocking.

Entering and Exiting the Vehicle

The external handle has a lock and key for locking and unlocking it from outside the vehicle:

- To unlock the door, turn the key in an anticlockwise direction.
- To lock the door, turn the key in a clockwise direction.



The doors can be locked and unlocked from inside the vehicle as follows:

- To lock the door, push the button in a downward direction.
- To unlock the door, pull the the button in a upward direction.

Access to the Cab

⚠ **WARNING: Keep the access step and grab handles clean, free from obstruction and in an appropriate condition, to prevent slips.**

⚠ **WARNING: Always face towards the cab when you enter or exit the vehicle.**

⚠ **WARNING: Never jump out of the cab.**

Entering and Exiting the Vehicle

Unlock the vehicle doors. See "Locking and Unlocking", page 11 or "Remote Key", page 10.

Use the external handle to open the door.

Enter the vehicle using the handholds and the step.

Doors

Doors

When the doors are open the two external light fixtures on the upper cross member and the white internal light switch ON.

The external light fixtures switch OFF when the doors are closed (they are timer controlled).

Exterior Handle Operation

Locking and unlocking the cab door. See "Locking and Unlocking", page 11.

To open the door, pull the handle downwards.

NOTE: When the door is opened, the cab interior lights and the step lights activate immediately. The lights and the ceiling light switch off when the doors are closed (they are timer controlled).

To close the door, position flat of hand on the exterior handle and push to close.

WARNING: Risk of injury. When you close the door do not hold the lower edge of the plastic guard. Failure to obey the precaution can cause severe injury to the hands and damage to the vehicle.

Doors

Interior Door

1. Door opening lever. Depending on the door trim, there maybe one of two types of door opening lever provided.
2. Handle for closing the door.
3. Button for locking/unlocking the door from the inside.

Safety

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Seat Belts

Seat Belt Warnings

Seat belts are the most effective means of restraining vehicle occupants from impact forces, which minimises the danger of injury from interior impacts and the effects of whiplash.

WARNING: Always fasten the seat belts. Travelling without a seat belt increases the risk of injury or death to the vehicle occupants in the event of a collision.

WARNING: Pregnant women should wear a seat belt to ensure maximum safety of mother and unborn child. Position the lap belt across the hips, below the abdomen and position the shoulder belt between the breasts and to the side of the abdomen. Ensure the belt is not slack or twisted.

WARNING: The seat belt only provides its intended degree of protection if the seat backrest is positioned close to vertical, and the occupant is sitting upright.

WARNING: The seat belt cannot perform its function correctly if the seat belt or buckle becomes excessively dirty or damaged. Ensure the belt latch engages the buckle fully. Check the seat belts regularly to ensure that they are not damaged, or routed over sharp edges and are not trapped. The belt could tear in an accident, causing injury to occupants.

WARNING: Do not secure any objects with a seat belt if the seat belt is being used by a vehicle occupant.

WARNING: Avoid wearing bulky clothing which can make the seat belt less effective in an accident.

WARNING: Only one person should use each seat belt at any one time.

WARNING: Do not route the belt across sharp edged or fragile objects especially if these are on or in your clothing. The seat belt could be damaged and you could be injured.

Seat Belts

WARNING: A seat belt which is not worn, worn incorrectly, or has not been engaged fully in the seat belt buckle, cannot perform its intended function. To avoid injuries, ensure that all vehicle occupants wear their seat belt correctly at all times:

- **Do not move the seat into a position that could interfere with the correct positioning of the seatbelt.**
- **The belt must lie flat and be routed between the neck and shoulder.**
- **The belt is routed as low as possible across your pelvic area, i.e. across your hip joints and not across your abdomen.**
- **Periodically check the seat belt for damage, check for cuts and that it is not frayed. Check the seatbelt is secure.**
- **If the vehicle is involved in an accident, replace the seat belt used even if it appears undamaged.**
- **Do not modify the seat belt in a way that could reduce its functionality.**

Not following the necessary precautions can cause the seatbelt to function incorrectly which can cause severe injury to vehicle occupants.

Using the Seat Belts

Fastening the Seat Belt

Seat Belts

To fasten the seat belt:

1. Make sure you are seated comfortably and the seat is set in the correct position.
2. Grasp the seat belt latch and pull the seat belt across the body, ensuring that the belt lies flat across the mid point of the collar bone between the neck and shoulder, then across the chest and pelvis.
3. With the belt correctly positioned insert the latch into the buckle and press until a click is heard to confirm engagement.
4. Check engagement by attempting to pull the latch from the buckle.

The seat belt does not require manual adjustment, the seatbelt self adjusts to the person and movement as long as no sudden movements are made.

NOTE: The seats installed in the vehicle are not suitable for transporting children. The seat belt is designed for use by adult occupants only.

The mechanism is sensitive to changes in the vehicle position and may lock in the following circumstances:

- Sudden acceleration.
- When travelling on a slope.
- When travelling on a bend.

Releasing the Seat Belt

To release the seat belt press the button at the top of the buckle.

The seat belt will retract automatically.

Seat Belts

Seat Belt Reminder

The seat belt warning light illuminates on the instrument panel if the seat belt is not fastened and the ignition is on. See "Ignition Modes", page 39.

When the vehicle exceeds 10 km/h (6 mph) an audio warning activates for approximately 30 seconds. During this phase the warning light flashes.

After 30 seconds the audio warning switches off for 10 seconds and switches on again when the vehicle exceeds 10 km/h (6 mph).

The audio warning activates each time the vehicle exceeds 10 km/h (6 mph).

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Warning and Notification Lights

Warning and Notification lights are divided into different colour categories:

- Red warning or notification lights are primary warnings and must be investigated immediately by the driver or by a qualified person, before continuing.
- Amber and yellow warning or notification lights are secondary warnings. Some indicate that a system is operating; some indicate that an action must be taken.
- Green warning or notification lights indicate a system's status.
- Blue warning or notification lights indicate a system's status.

	Illuminates when the cab is not locked into position.
	Illuminates when a seat is occupied without the seatbelt fastened.
	Illuminates when a cabin door is open.
	Illuminates to indicate a fault with the low voltage battery charging system. The light illuminates when the power system is switched on as part of a self test and extinguishes when the system is switched to ready. If the battery power is low the light illuminates and a message appears in the message centre.
	Illuminates to indicate a fault with the VCU (Vehicle Control Unit) or fault within the system.
	Illuminates to indicate a fault with the motors or inverter units within the electric drive system.
	Illuminates to indicate a fault with the power supply system or a high voltage battery failure.
	Illuminates to warn of abnormally high electric drive motor temperature.
	Illuminates to warn of abnormally high battery temperature.
	Illuminates to show the vehicle is not ready to drive. If the light illuminates whilst driving, the driver must stop immediately.
	Illuminates at the top of the instrument panel to show a fault with the vehicle systems. The driver must stop immediately.
	Illuminates to notify that the parking brake is applied.
	Illuminates and flashes if the ASR (Anti Skid Regulator) detects wheel slip. A fault has occurred if the light illuminates continually.
	Illuminates when the hill hold system is engaged. The light flashes, for two seconds, to notify when hill hold is being disengaged.
	Illuminates to notify that the rear fog lights are on.
	Illuminates and flashes if the Lane Departure Warning System (LDWS) detects the vehicle unintentionally leaving lane position. A fault has occurred if the light illuminates continually.
	Illuminates if the differential lock is engaged.
	Illuminates when Electronic Vehicle Stability Control (EVSC) or ASR (Anti Skid Regulator) is in operation.
	Illuminates when the Automatic Emergency Braking System (AEBS) activates a front collision warning. A fault has occurred if the light illuminates continually.

Driver's Display

	Illuminates to indicate a fault with the ABS (Anti lock Braking System). If a fault occurs during driving the ABS is disabled but normal braking is still available.
	Illuminates to indicate a fault with the EBS (Electronic Braking System). If a fault occurs during driving the EBS is disabled but normal braking is still available.
	Illuminates to indicate a fault with the power steering system.
	Illuminates to indicate a fault with the braking system.
	Illuminates to indicate a fault with the accelerator pedal or associated system.
	Illuminates to notify the driver there is a stored message in the message centre. To access messages, see "Instrument Panel Operation", page 24.
	Illuminates to show the cruise control is active and the speed has been set. Flashes if there is a system fault.
	Illuminates to show the vehicle is ready to drive.
	Illuminates to notify that the sidelights are on.
	Illuminates and flashes to notify that the left direction indicator is on. If the arrow remains illuminated this shows a fault with the indicators.
	Illuminates and flashes to notify that the right direction indicator is on. If the arrow remains illuminated this shows a fault with the indicators.
 	Both direction indicators illuminate and flash to notify the hazard lights are operating. If both arrows remain illuminated this shows a fault with the indicators.

	Illuminates to warn of abnormally low battery temperature.
	Illuminates to warn of abnormally low electric drive motor temperature.
	Illuminates to notify that the main beam headlights are on.
	Illuminates to notify the cruise control is switched on but a speed has not been set.

Driver's Display

Instrument Panel Operation

WARNING: Do not operate the instrument panel menu controls while the vehicle is moving. Doing so may cause driver distraction. Driver distraction may cause an accident, leading to serious injury or death.

The instrument panel menu is operational with the ignition key in position **2**. See "Ignition Modes", page 39.

Navigate the instrument panel menu with the steering wheel controls. See "Steering Wheel Controls", page 25.

- **Page button**: Press and release to open the main menu.
- **Scroll up and scroll down button**: Press and release to navigate through the menus.
- **OK, Menu button**: Press and release to select current option.

The following options are available:

- **Trip**: Select to see various trip information or to hide the trip data.
- **Settings**: Select to adjust the settings as follows:

  Distance units.

  Temperature units.

  Language settings.

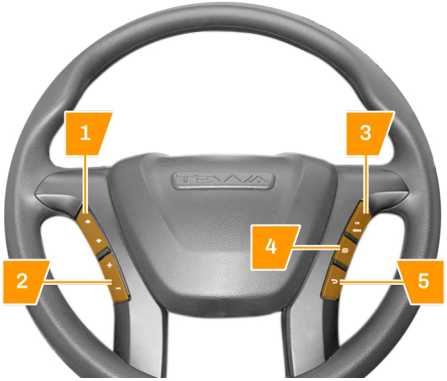
  Time settings.

  Advanced Emergency Braking System (AEBS) settings.

Steering Wheel

Steering Wheel Controls

The steering wheel buttons control the Bluetooth® phone operation and the selection of certain display and radio functions.



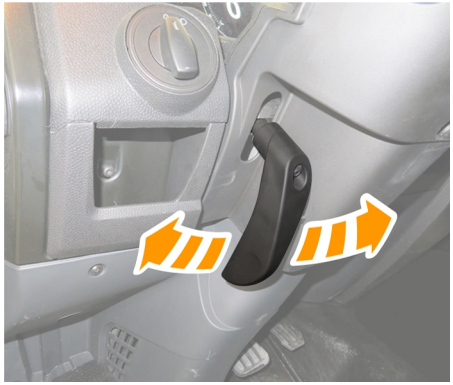
1. Scroll up button and scroll down button.
2. + Button and - button.
3. Menu/OK/Answer incoming call button.
4. Page button.
5. Exit/Refuse incoming call button.

Steering Wheel

Adjusting the Steering Wheel

⚠ **WARNING: Do not adjust the steering whilst driving. Adjusting the steering wheel whilst driving can cause loss of control of the vehicle. Loss of control of the vehicle can cause serious injury or death.**

The position of the steering wheel can be changed by adjusting the height and tilt to adapt to the driver's position.



To adjust the steering wheel:

1. Release the adjusting lever on the steering column by rotating it counterclockwise until it stops.
2. Hold the steering wheel with your hands and adjust it by pulling it up or down to adjust the height. Push it forwards or pull it towards you to adjust the depth.
3. Hold the steering wheel in the correct position and tighten the adjusting lever by rotating it clockwise until it stops.

Wipers and Washers

Wiper Controls

NOTE: The windscreen wipers will only operate when the ignition key is switched to position **2**. See "Ignition Modes", page 39.

Starting from the off position rotate the wiper stalk switch to the position required:

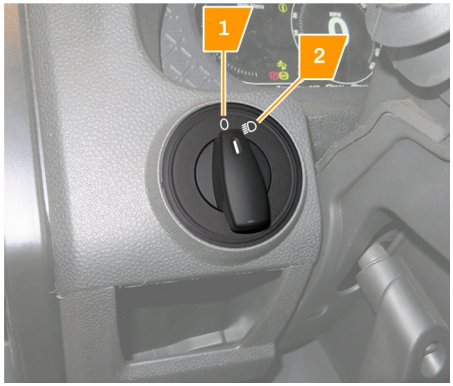
- **0:** The wipers are switched off.
- **INT:** The wipers will operate intermittently.
- **I:** The wipers operate continuously at low speed.
- **II:** The wipers operate continuously at high speed.

Operating the Washers

To operate the washers, slide the wiper stalk switch in the direction shown.

Lighting

Lighting Control



The lighting control is located adjacent to the steering column. Rotate the control to the required position:

1. Off position.
   - With the ignition off, all lights are off. With the ignition on, the daytime running lights are on.
2. Lights on position.
   - With the ignition off, parking lights are on. With the ignition on, the sidelights and low beam headlights are on.

High and Low Beam Headlights

The stalk is located on the steering column.

With the lighting control in the lights on position, push the stalk away from you **(1)** to switch to high beam. See "Lighting Control", page 28.

The high beam notification light illuminates on the instrument panel.

Move the stalk back to the central position, to revert to low beam.

To flash the high beam headlights pull the stalk fully towards you **(2)**. The high beam headlights operate for as long as the stalk is held. The high beam notification light also illuminates on the instrument panel.

Lighting

Direction Indicators

The stalk is located on the steering column.

Push the stalk up to operate the right direction indicator **(1)**.

The right direction indicator notification light illuminates on the instrument panel.

Push the stalk down to operate the left direction indicator **(2)**.

The left direction indicator notification light illuminates on the instrument panel.

The indicators automatically turn off as the steering wheel returns to its central position.

Hazard Warning Lights

The hazard light switch is located on the dashboard controls. See section "Dashboard Controls", page 8.

To switch the hazard lights on, press the hazard light switch.

When the hazard lights are on, the direction indicators illuminate and the notification lights illuminate on the instrument panel.

Press the hazard light switch again to turn off the hazard lights. The notification lights on the instrumet panel will extinguish.

NOTE: The hazard lights operate regardless of ignition switch position.

Rear Fog Lights

The rear fog light switch is located on the dashboard controls. See "Controls Overview", page 7.

With the ignition on and low beam headlights selected, press the switch to turn on the rear fog lights.

The rear fog light notification light illuminates on the instrument panel.

To switch off the rear fog lights, press the fog light switch again. The notification light on the instrumet panel will extinguish.

NOTE: The rear fog lights switch off automatically when the ignition is switched off.

Lighting

Interior Lighting

Location and Operation

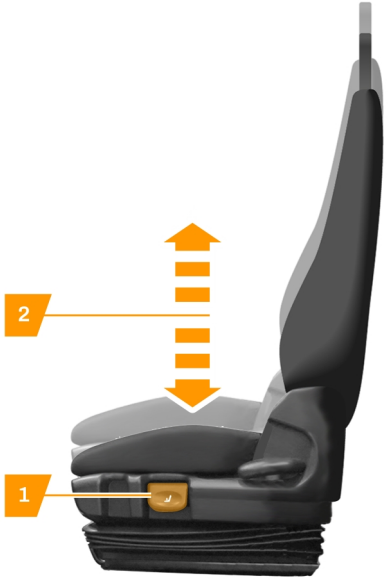
1. The interior light is in the centre of the cab above the dashboard.
2. The door entry lights are located on both sides of the cab.

When the door is opened, the door entry lights activate immediately. The lights switch off when the doors are closed (they are timer controlled).

To turn the centre light on, push the cab lighting button on the dashboard. Push the button again to turn it off. See "Dashboard Controls", page 8.

Seats

Seat Height Adjustment



1. Lift the lever to release the seat.
2. Move the seat to the correct height, then release the lever to lock the seat position.

Seatback Adjustment

1. Lift the lever to release the seat.
2. Move the seatback to the correct position, then release the lever to lock the seatback position.

Seats

Seat Forward and Rearward Adjustment

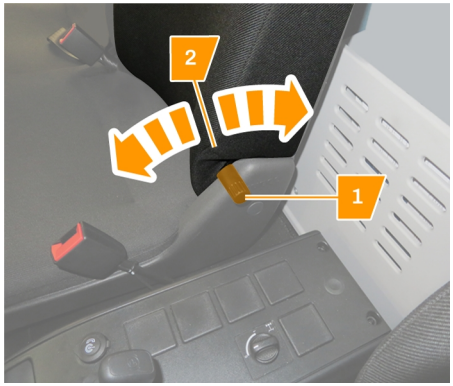
1. Lift the lever to release the seat.
2. Slide the seat forward or backwards to the correct position, then release the lever to lock the seat position.

Seat Base Adjustment

1. Lift the lever to release the seat.
2. Tilt the seat base up or down to the correct position, then release the lever to lock the seat base position.

Seats

Passenger Seatback Release



To access the rear cab storage, the passenger seatback can be released forwards:

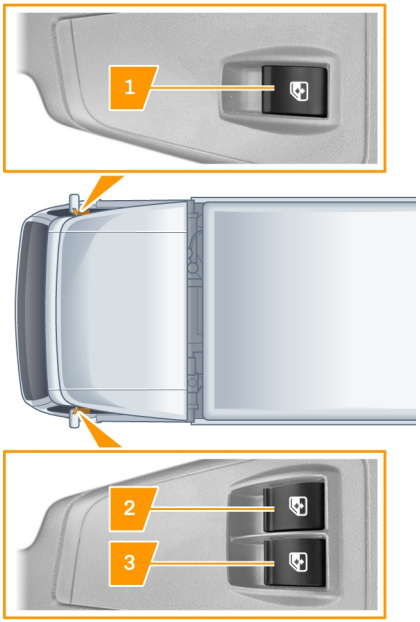
1. Lift the lever to release the seatback.
2. Tilt the seatback forwards.

Door Mirrors and Windows

Power Windows

WARNING: Risk of injury. Before closing a window, make sure that no occupants have any body part in a position where it could be trapped.

WARNING: Risk of injury. When you leave the vehicle, always remove the ignition key to prevent accidental operation of the windows. There is a risk passengers still in the vehicle could operate the windows and become trapped.



The passenger can only operate the window on the passenger side **(1)**.

The power window buttons for both the passenger seat **(2)** and the drivers seat **(3)** are located on the driver's side.

To open the window, push the switch down. Release the switch to stop the window.

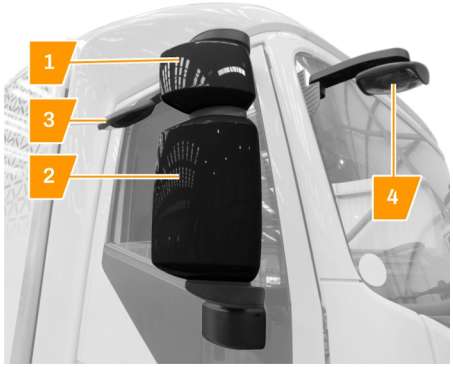
Door Mirrors and Windows

To close the window, pull the switch up. Release the switch to stop the window.

The operation of the windows remains active when the ignition is on. See "Ignition Modes", page 39.

Exterior Mirrors

Passenger Side Mirrors



1. Wide angle blind spot mirror.
2. Main rear view mirror.
3. Kerb blind spot mirror.
4. Front blind spot mirror.

Driver Side Mirrors

The drivers mirrors are the same as the passenger except the kerb blind spot mirror **(3)** and front blind spot mirror **(4)** are not installed.

Mirror Adjustment

To adjust the exterior mirrors, gently press the lens until the desired position is achieved.

NOTE: Objects appear closer in the exterior mirror.

Sun Visors

Operating the Sun Visors

Fold down the sun visor to protect your eyes from bright sunlight whilst driving.

Fold the sun visor up to engage the magnetic catch and stow the sun visor.

Horn

Operating the Horn

To operate the horn, press the button as illustrated. Release the button to end horn operation.

Starting and Driving

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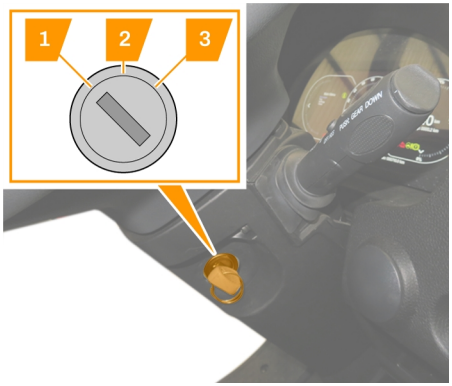
Starting and Stopping The Vehicle

Ignition Modes



NOTE: When the ignition key has been removed from the ignition switch, the steering wheel locking device is activated.

The ignition has 3 modes, rotate the key to the required position:

1. **Off**: Select to switch the vehicle off.
2. **On**: Select to enable the vehicle's electrical system.
3. **Start**: Select to start the vehicle's propulsion system.

Switching the Vehicle On

To switch the vehicle on:

1. Make sure the parking brake is applied.
2. Insert the ignition key into the ignition switch.
3. Rotate the ignition key to position **2**. An audible alert is heard, the speedometer displays **Initialising** accompanied with an animated orange light. Wait until the speedometer displays **Ready to start** accompanied with a steady green light. See "Ignition Modes", page 39.
4. Rotate the ignition key to position **3** then release. See "Ignition Modes", page 39.

The ready to drive warning light illuminates on the instrument panel. The vehicle is now ready to select a gear and drive. See "Selecting a Gear", page 41.

Switching the Vehicle Off

WARNING: Do not attempt to remove the key from the ignition switch until the vehicle is stationary. Failure to obey these instructions can put the vehicle, occupants and other road users at risk of accident.

To switch the vehicle off:

1. Make sure the vehicle is stationary.
2. Set the gear selector to **N** (Neutral).
3. Apply the parking brake.
4. Rotate the ignition key to position **1**. See "Ignition Modes", page 39.
5. Remove the key from the ignition switch.

Starting and Stopping The Vehicle

NOTE: If the vehicle is switched off and the parking brake is not applied, an audible warning will sound accompanied by a message on the instrument panel.

Battery Isolator Switch

When the key is switched to the off position, after a user defined time and based on the devices engaged, the battery cut off is automatically triggered to disconnect the batteries from the vehicle circuits.

Connection is automatically restored under the following conditions:

- Main current contactor tripped by push button.
- Switching one of the interior cab lights on.
- Hazard light switching on.
- Insertion of ignition key into the ignition cylinder.
- Horn activation.
- Driver or passenger door opening.
- External light activation.
- Brake pedal activation.

Operation of the battery isolator button is inhibited for the first ten seconds after switching off the ignition provided that:

- No emergency lights are on.
- The brake pedal is not pressed.
- No control units have the alarm clock programmed
- The emergency lights are not on.

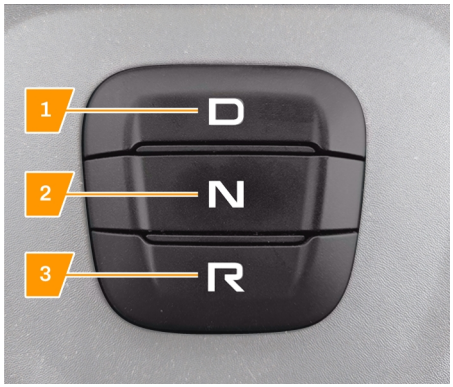
If the above conditions are met the battery isolation switch can be pressed. See "Dashboard Controls", page 8.

Gear Selector

Selecting a Gear

⚠ CAUTION: The vehicle must be stationary before making a gear selection. Failure to do so can potentially result in serious damage to the vehicle's driveline system.

⚠ CAUTION: Do not press the accelerator pedal when making a gear selection. Doing so can potentially result in serious damage to the vehicle's driveline system.



With the vehicle stationary, firmly apply the brake pedal and press the required gear selector:

1. Drive (**D**): Select to drive the vehicle forward.
2. Neutral (**N**): Select to stop propulsion energy being supplied to the vehicle's driveline system.
3. Reverse (**R**): Select to drive the vehicle backward.

Neutral position can be selected from any gear position.

To select a gear whilst driving, stop the vehicle, press neutral then the required gear. It is not possible to select another gear whilst in motion.

The current gear selection is displayed on the instrument panel. See "Instrument Panel Overview", page 8.

NOTE: When the ignition is cycled, the vehicle automatically resets to neutral gear selection.

Speed Limiter

Speed Limiter Operation

The vehicle is limited to a maximum speed of 80 km/h (50 mph).

It is possible to set a lower speed as follows:

1. Drive the vehicle at the desired speed.
2. SL Press the Speed Limiter (SL) button on the dashboard. See "Controls Overview", page 7.
3. The speed limiter is now set at the current speed. A red arrow appears on the speedometer to indicate the speed limiter is engaged.
4. Within 10 seconds of pressing the SL button the speed can be adjusted using the +/- buttons on the right steering column switch.

NOTE: The cruise control will only operate if the preset speed is less or equal to the speed limiter setting.

Brakes

Parking Brake

WARNING: Do not use the parking brake as a service brake. The parking brake must not be applied when the vehicle is moving or used to slow the vehicle down. Failure to obey this warning can cause damage to the vehicle and serious injury from loss of control of the vehicle.

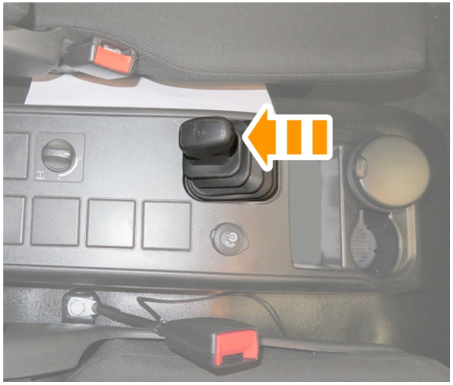
WARNING: Always apply the parking brake when the vehicle is stationary or when you leave the cab. Not applying the parking brake can cause the vehicle to move suddenly without warning and cause serious injury.

NOTE: If the vehicle is parked on an incline it is advised to angle the steering wheel to prevent accidental movement of the vehicle. When parking downhill turn the steering wheel towards the kerb. When parking uphill turn the steering wheel away from the kerb.

NOTE: If the vehicle is switched off and the parking brake is not applied, an audible warning will sound accompanied by a message on the instrument panel.

Applying the Parking Brake

1. Stop the vehicle using the brake pedal.
2. Set the gear selection to **N** (neutral).
3. Move the parking brake lever rearwards until it drops into a locked position.

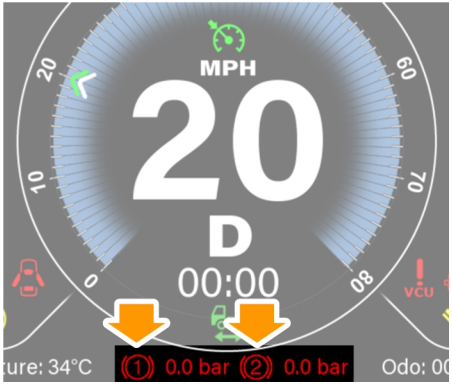


To make sure the parking brake lever is locked in position, check the following:

- The parking brake lever has lowered into position so it is mechanically locked.
- The parking brake warning light is illuminated on the instrument panel.

Brakes

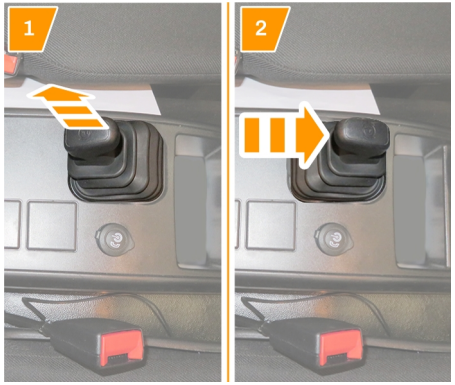
Releasing the Parking Brake



Before you can release the parking brake, the air pressure in the brake system must be equal to or greater than **8 bar**. The pressure can be monitored on the bottom of the instrument panel.

NOTE: As a fail safe, the brake actuators will lock in position if the air pressure in the system is not sufficient to supply the brake system.

NOTE: If the air pressure in the brake system fails to reach the required parking brake release pressure contact a retailer/authorised repairer.



To release the parking brake, lift the lever from position (**1**) then move the lever to position (**2**).

Make sure the parking brake warning light has extinguished on the instrument panel.

Anti-Lock Braking System

The Anti-locking Braking System (ABS) allows optimal braking performance while still maintaining control of the vehicle.

The ABS system:

- Prevents locking of individual wheels when braking, regardless of the grip conditions of the road surface.
- Gives the driver a greater degree of control and safety by keeping the vehicle stable under braking conditions.

Brakes

The Electronic Brake-force Limitation (EBL) automatically reduces the brake force on the rear axle if the vehicle is not fully loaded.

When braking pay attention to the following:

- The brake pedal may be subject to light pulsating that the driver may notice when the ABS system is operating.
- When the ABS system operates and the brake pedal pulsates, driver pressure on the pedal must not be released but kept applied as with normal braking. The system will activate to allow the vehicle to stop in the shortest distance possible.
- The performance of the ABS system does not increase braking performance and the driver must not take unnecessary risks when driving.
- The driver must still take into account the driving conditions and drive accordingly.
- The maximum stopping distance still depends on the grip between the tyres and the road surface. In the event of slippery conditions such as ice or snow, stopping distances remain high even with the ABS system activated.

If the ABS warning light illuminates when driving, it indicates a fault in the system. The ABS system may not function correctly when the warning light is illuminated.

WARNING: Driving with the ABS warning light illuminated can cause the ABS system to malfunction. The braking system efficiency will be compromised and should be investigated as soon as possible by qualified assistance.

Advanced Emergency Braking System

WARNING: Safety systems are intended as a driver aid only and they do not reduce the responsibility of the driver to drive safely. The driver is fully responsible for the movements of the vehicle and should not rely on safety systems to drive carefully. Failure to obey these instructions can put the vehicle, occupants and other road users at risk of accident.

The Advanced Emergency Braking System (AEBS) is a driving assistance system which warns the driver so they can avoid any potential head-on collision. The AEBS automatically measures the distance of the vehicle from the vehicle ahead and calculates whether braking intervention is required.

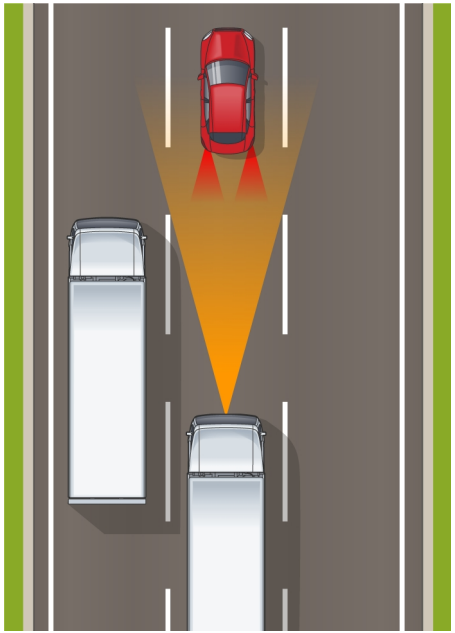
The system receives measurement data from a radar installed in the middle of the front bumper.

Brakes

The AEBS will assist the driver by automatically decelerating the vehicle as much as possible if the driver operates the brake pedal independently of the system.

The AEBS will also assist the driver by automatically decelerating the vehicle as much as possible if the driver operates the brake pedal after the system has issued a collision warning.

The vehicle monitors the approximate area in front of the vehicle as indicated:



NOTE: Vehicle movements initiated by the driver take priority over requests from the AEBS. Once the vehicle movement has been completed, the AEBS resumes function.

NOTE: The driver can override an AEBS operation by turning the steering wheel, or pressing the brake pedal. When overridden, AEBS cancels its request for braking to make sure that the driver remains in full control of the vehicle.

NOTE: Activation of the turn indicators temporarily disables the AEBS system.

AEBS Intervention Levels

The AEBS system has three intervention levels based on collision prediction time:

- **Level 1** Visual and audible warnings.

  
  The attention symbol starts flashing and the collision warning symbol illuminates.

  COLLISION WARNING appears in the instrument panel.
- **Level 2** Visual and audible warnings and immediate braking action. In addition to the warnings as **Level 1** the system limits the vehicle power and warns the driver by applying a brief braking action. The driver still has full control to correct the situation.
- **Level 3** Visual and audible warnings and emergency braking action.

  
  The attention symbol stops flashing and remains lit and the collision warning symbol illuminates.

  EMERGENCY BRAKING is displayed in the instrument panel and emergency braking is activated to prevent or limit a possible collision.

NOTE: The AEBS system records every emergency braking event.


If the AEBS records three automatic braking events the AEBS system will not function and both warning lights are displayed on the instrument panel.

The vehicle can still be driven but the AEBS will not function. Contact the service network as soon as possible to restore the AEBS function.

NOTE: The volume of the system intervention audible warning can be configured using the radio setting menu.

AEBS Activation and Deactivation

The AEBS system is automatically active when the vehicle is started. The AEBS system can be disabled via the instrument panel menu. See "Instrument Panel Operation", page 24.


The warning lights will appear on the instrument panel while the system is disabled.

The AEBS will also be disabled if there is a fault in the system and the warning lights are illuminated.

Brakes

WARNING: System operation may be compromised in some circumstances. Obey the following precautions:

- **For the first 10 km (6 miles) after setting the ignition on, the system sensitivity may be limited.**
- **The system operation may be limited when the vehicle travels through tight bends, tunnels, bridges and the first few kilometres/miles after a change in load.**
- **The system is only able to detect vehicles travelling in the same direction as you and those that are stationary in front of your vehicle. The AEBS might not recognise small road vehicles which are side on to the vehicle.**
- **The system may trigger or brake unexpectedly. The driver will have to take special care and take full control of the vehicle to avoid unexpected vehicle behaviour.**

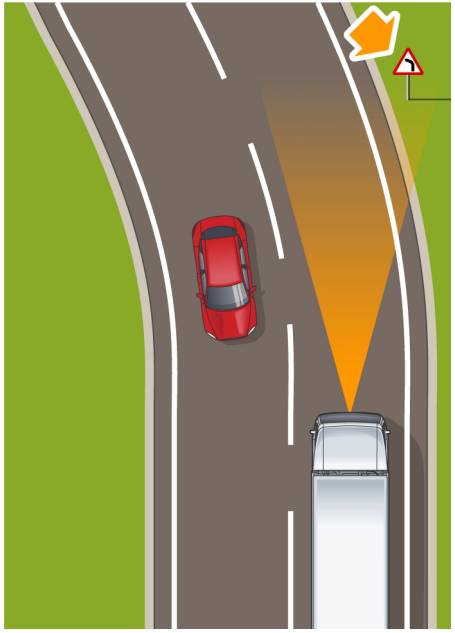
Not understanding the AEBS system limitations can put the vehicle, occupants and other road users at risk of accident.

The AEBS may trigger or brake unexpectedly in the following circumstances:

Driving in or out of bends.

Brakes

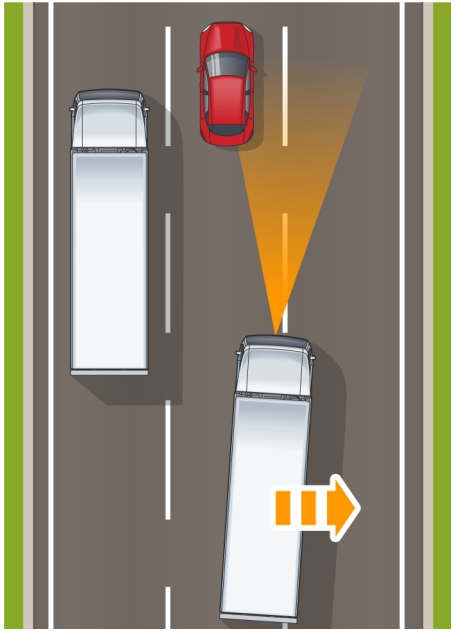
Negotiating junctions and exits.



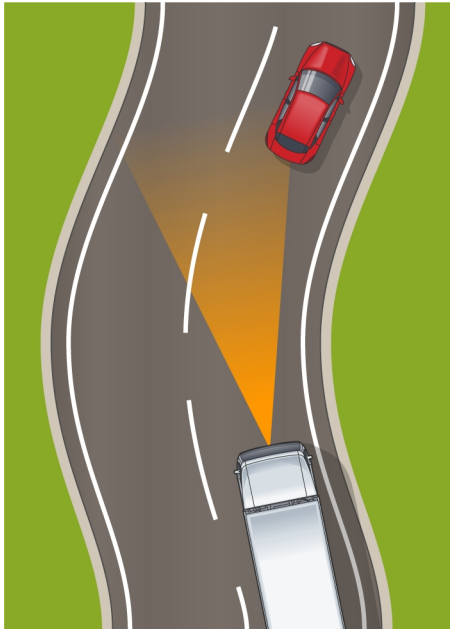
Fixed objects on the side of the carriageway.

Brakes

Vehicles which unexpectedly exit or enter your driving lane.



Overtaking other vehicles.



Winding roads.

The AEBS system is not active at speeds below 15 km/h (9 mph) unless it has already intervened in which case it will remain active until the risk situation is resolved.

CAUTION: Make sure the radar sensor is clean and free from contamination. Objects or contamination of the sensor can cause system malfunction.

NOTE: When a vehicle is installed with AEBS, the following precautions should be obeyed:

- Deactivate the system for rolling road testing.
- Deactivate the system if towing a trailer without an ABS system.
- Deactivate the system if the vehicle is being towed.
- The AEBS sensor must be recalibrated if its original position has been modified after an accident or bumper replacement.
- The radio emissions of the system are significantly lower than the legal limits and requirements. Therefore, there is no minimum safety distance or time limit of exposure to the radar sensor.

Regenerative Braking

Regenerative braking is active when the brake pedal is used. There is also a default level of regenerative braking when the accelerator pedal is released. The action of the vehicle slowing down is converted to energy to charge the high voltage batteries. The driver may notice that less effort is required to operate the brake pedal and stop the vehicle.

The level of regenerative braking is controlled by the Electronic Braking System (EBS) and varies depending on how hard the brake pedal is pressed. The level of brake regeneration can not be adjusted by the driver.

Brakes

Hill Hold

WARNING: Safety systems are intended as a driver aid only and they do not reduce the responsibility of the driver to drive safely. The driver is fully responsible for the movements of the vehicle and should not rely on safety systems to drive carefully. Failure to obey these instructions can put the vehicle, occupants and other road users at risk of accident.

WARNING: If any brake system faults or warning lights illuminate, the hill hold system can malfunction. Do not rely on the system to operate correctly. Seek qualified assistance immediately.

The hill hold function is an anti-roll back feature that helps the driver to set off when the vehicle is on an incline.

The hill hold is always active and cannot be disabled.

For the system to activate the following conditions must be met:

- The ignition is on.
- The brake system air supply pressure is at the correct level.
- The brake pedal is pressed.
- The vehicle is stationary.
- The vehicle did not come to a halt with the Anti-locking Brake System (ABS) active.
- There is not an Electronic Brake System (EBS) warning light illuminated. See "Warning and Notification Lights", page 22.

When the driver releases the brake pedal the hill hold continues to apply braking to hold the vehicle. The brakes are released when the driver operates the accelerator pedal.

If the driver does not drive the vehicle within the first few seconds of releasing the brake pedal the hill hold will deactivate and release the brake. The function will restart if the brake pedal is operated again and the vehicle speed is below 8 km/h (5 mph).

High Voltage Battery Charging

Charging Safety

WARNING: Inspect sockets, plugs and cables for damage before using the charging equipment. Do not use any equipment that shows signs of misuse or damage,

WARNING: Always make sure that any excess water is removed from the port area before connecting a charging device.

WARNING: Avoid connecting the charger during torrential rain or storms. If excessive water is evident around the charging port, use a suitable cloth to dry the area before removing the waterproof blanking plugs and connecting the charging cables.

WARNING: Do not touch the charging connector or charging plug when your hands are wet.

WARNING: Stop charging immediately if you notice anything abnormal such as sparks, burning or smoke.

WARNING: Always hold the charging connector handle or plug when connecting or removing the charging cable to avoid damage to the internal wiring in the cable. Damage such as this may lead to electric shock or fire. Be careful not to drop the charging connector as this could also lead to damage.

WARNING: High voltage charging equipment can cause interference with electronic medical devices. When using medical electrical devices such as pacemakers, please consult your doctor about whether charging your electric vehicle will impact the operation of the device. In some instances, electromagnetic waves that are generated from the charger can seriously impact medical electric device operation.

CAUTION: It is strongly recommended that you use a slow charging method under usual circumstances. Where possible, avoid constant or regular use of rapid chargers.

CAUTION: Do not start the vehicle during the charging process.

CAUTION: When charging has finished, switch off the charger (where the option is available), disconnect the cable from the vehicle, fit the waterproof blanking plug(s) and close the charging port door. Where applicable, disconnect the cable from the charging device.

CAUTION: Always keep the charging connector and charging plug clean and dry. Store your charging cable somewhere where there is no water or moisture present.

CAUTION: Only use the correct charger for charging the electric vehicle. Using any other charger or connector configuration may cause failure.

High Voltage Battery Charging

CAUTION: Do not use a portable generator to charge the vehicle. Using a portable generator to charge the vehicle can cause serious damage to the vehicle system.

CAUTION: Do not attempt to modify or install non approved connectors to the charging cable. Using a cable or connector that is not the correct specification may cause failure.

CAUTION: When the installation of a charging station is necessary, it is essential a qualified electrician checks the property infrastructure will support the charging equipment. Failure to check equipment compatibility can cause overloading of electrical circuits and result in fire.

Charging the Vehicle

WARNING: Before charging the vehicle make sure to read and understand the relevant safety warnings. See "Charging Safety", page 53.

CAUTION: The vehicle can not be driven with the charging cable attached. Always remove the cable before attempting to drive the vehicle or damage can occur.

Preparing the Vehicle for Charging

Before charging the vehicle make sure the charging equipment is compatible. See "High Voltage Battery Specifications", page 141 and "High Voltage Charging Specifications", page 141.

To prepare the vehicle for charging:

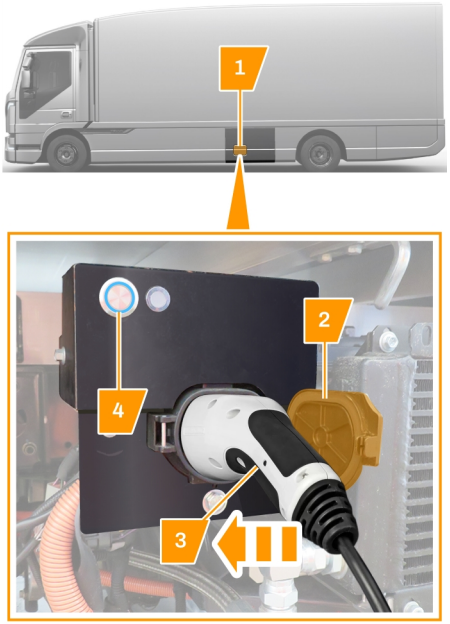
1. Make sure the parking brake is applied.
2. Make sure the ignition switch is in position **1**. See "Ignition Modes", page 39.
3. Remove the key from the ignition switch.

Charging Cable

A type 2 charging cable is required for AC charging, always use the correct type of cable to charge the vehicle.

High Voltage Battery Charging

Connecting a Charging Cable



The charging port is located on the left side of the vehicle in front of the rear wheel arch.

To connect a charging cable:

1. Plug the appropriate charging cable into the charging device.

   NOTE: Cables may be pre-tethered to the charging post when using some charging stations.

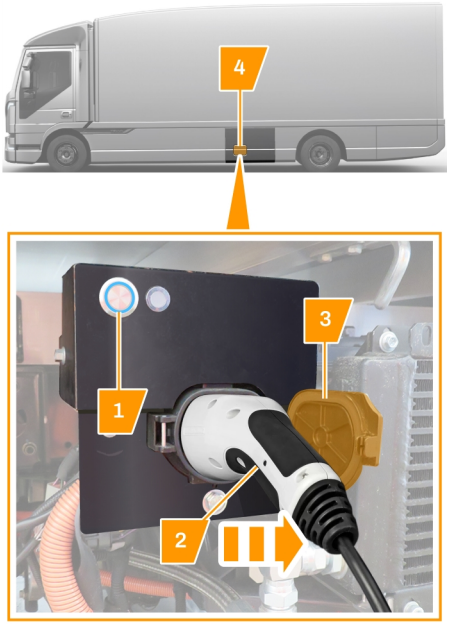
2. Push and release the flap to access the charging socket **(1)**.
3. Open the charging socket flap **(2)**.
4. Connect the charging cable to the vehicle charging socket **(3)**.
5. The blue light **(4)** flashes then stops once the cable is locked in.

   NOTE: An audible click is heard when the cable is correctly located and locked.

6. The LED charging port light indicates the vehicle is charging. See "Charging Status", page 56.

Follow the instructions on the charging station to charge the vehicle.

Disconnecting the Charging Cable



1. Press and hold the button encircled by a blue LED **(1)** for approximately 2 seconds until both lights extinguish.
2. Once the lights extinguish and an audible click is heard, the charging cable **(2)** is unlocked and can be removed.
3. Close the charging connector flap **(3)**.
4. Close the charging port flap **(4)**.
5. Remove the cable from the charging device.

In the event the charging cable will not release from the charging port. See "Charging Cable Emergency Release", page 58.

Charging Status

Charging Port Status

The vehicle charging status is displayed by the charging port and on the drivers instrument panel.

1. After connecting the charging cable to the vehicle the blue light flashes until the charging cable is electrically locked in position. After the cable is locked the light remains on.

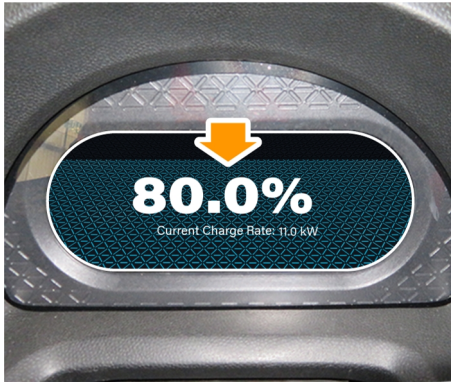
High Voltage Battery Charging

2. The LED light indicates a charging status as follows:
   - Flashing amber - Charging initialisation **(1)**.
   - Solid amber - Battery charging when battery capacity is under 80% **(2)**.
   - Solid green - Battery charging when battery capacity is over 80% **(3)**.
   - Solid red - Battery charging fault **(4)**.

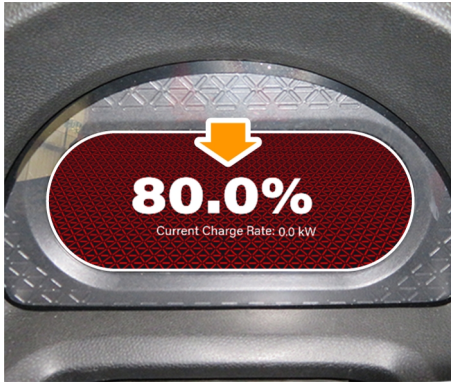
Instrument Panel Status

During vehicle charging, the instrument panel displays the following:

- The current battery capacity or state of charge in %.
- The charging rate in kW.



If a charging error is encountered the screen display background will change to red.



High Voltage Battery Charging

Charging Cable Emergency Release

WARNING: High voltage cables may be exposed when accessing certain vehicle components. Tampering with the high voltage system can cause severe burns or electric shock, which may result in serious injury or death. High voltage cables and connectors are coloured orange for identification purposes.

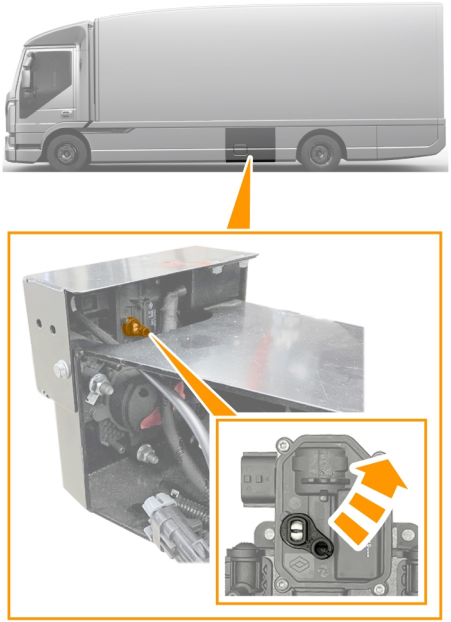
CAUTION: Do not use the emergency release as a normal release method as it can cause arcing at the socket pins and damage the terminal surfaces.

NOTE: If the cable will not release by using the emergency release method seek qualified assistance.

If the charging cable will not release electrically from the charging socket, the manual release will need to be activated.

The cable can be released as follows:

1. Access the rear of the charging socket.
2. Rotate the lever upwards to release the cable lock.



3. Remove the charging cable from the charging socket.

Tachograph

Tachograph

The tachograph unit is located on the driver's side, in the overhead console.

For information on the operation of the the tachograph unit please refer to the manufacturer's website:
www.fleet.vdo.com/media/2558/ba_dtco_40e_web_gb.pdf

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Electronic Stability Control

Vehicle Stability Control

Electronic Vehicle Stability Control

The Electronic Vehicle Stability Control (EVSC) controls the vehicle handling dynamics. The functions of the system are:

- Improve directional stability assisting the driver when the vehicle understeers or oversteers. The system intervenes to attempt to maintain the direction requested by the driver.
- Shorten braking distances during directional changes on slippery roads.
- Anti-roll control during dynamic manoeuvring. The system reacts to stabilise the vehicle when it detects conditions that could lead to vehicle roll over.

To assist in avoiding loss of control of the vehicle, the EVSC will automatically activate the brakes of a single wheel per axle to attempt to restore vehicle direction.

In order to support the deceleration of the vehicle, drive torque to the wheels will be reduced.

When the EVSC is operating, the warning light illuminates and flashes on the instrument panel.

Anti Skid Regulator

The Anti-Skid Regulator (ASR) prevents undesired wheel slip during acceleration and when cornering, especially on slippery surfaces or off-road. The functions of the system are:

- Prevents skidding of the drive wheels during acceleration and during normal driving.
- Ensures optimal grip on slippery surfaces.
- Improves stability during cornering when there is loss of grip.
- Reduces tyre wear.

If a fault has occurred the ASR light illuminates continually.

Driving Aids
Forward Collision Warning

Forward Collision Warning Alert

Forward Collision Warning (FCW) alerts the driver if there is a high risk of an impending collision. The system monitors the distance and movement of the vehicle ahead and the estimated reaction time of the driver to brake. Depending on the data received, the FCW system generates a collision warning on the instrument panel to inform the driver to intervene or brake to avoid a collision.

The FCW does not intervene to brake or slow the vehicle. It only issues a warning for the driver to brake on the instrument panel. For full AEBS functions see "Advanced Emergency Braking System", page 45.

Haptic Collision Warning

Incorporated as part of the Forward Collision Warning (FCW), Haptic Collision Warning (HCW) is also applied.

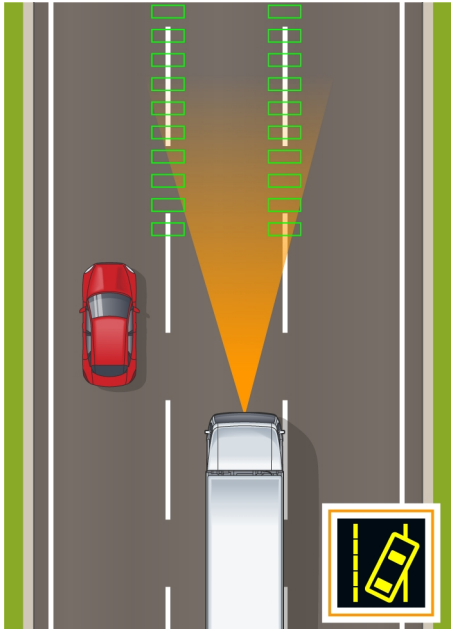
When a FCW is issued, the driver will feel haptic feedback on the brake system as the HCW briefly operates the brakes to gain the drivers awareness. For full AEBS functions see "Advanced Emergency Braking System", page 45.

Lane Departure Warning

Operating the Lane Departure Warning System

WARNING: Safety systems are intended as a driver aid only and they do not reduce the responsibility of the driver to drive safely. The driver is fully responsible for the movements of the vehicle and should not rely on safety systems to drive carefully. Failure to obey these instructions can put the vehicle, occupants and other road users at risk of accident.

The Lane Departure Warning System (LDWS) warns the driver of involuntary movement of the vehicle from its current lane and direction, signaling the crossing of the lines that mark the boundary of the driving lane.



The system uses the camera/sensor located in the middle of the dashboard to calculate the position of the vehicle in relation to the road markings.

Lane Departure Warning

The use of the LDWS is recommended when driving roads with a high traffic flow, such as motorways.

The LDWS recognises intentional lane changes by monitoring the use of the turn indicators.

To make sure the system remains operating correctly, the vehicle windscreen must be kept clean. If there is frost or ice on the windscreen, remove it so that the sensor line of sight is free from obstruction.

WARNING: Risk of system failure or malfunction:

- **Do not obstruct the sensor with any object which can block the line of sight.**
- **Do not attempt to move or modify the sensor in any way.**
- **Do not try to install additional components to the sensor or system.**

Failure to obey the precautions can cause system malfunction which can put the vehicle, occupants and other road users at risk of accident.

Operation

If the vehicle departs the driving lane without an indicator being activated and the vehicle speed is above 55km/h (34mph) the LDWS operates.

When the LDWS is active, the warning light flashes on the instrument panel.

The radio volume is reduced and an intermittent audio warning activates.

If installed, the audio warning is emitted from the corresponding loudspeaker on the side the road marking is crossed.

NOTE: If an after market radio is installed it may not be compatible with the LDWS and it is possible the volume reducing function does not operate correctly.

Lane Departure Warning

Deactivation

The LDWS system is always active when the ignition is turned on. When the ignition is switched on a brief alarm activates through the speakers to inform the driver that the system is operating correctly.

By pressing the LDWS button on the dashboard controls, the system can be deactivated. See "Dashboard Controls", page 8.

When the LDWS is deactivated the LED in the button illuminates together with the LDWS warning light on the instrument panel.

To reactivate the system press the LDWS button again. The LED in the LDWS button and the instrument panel warning light will extinguish. The system will now be active.

Speed Limiter

Speed Limiter Operation

The vehicle is limited to a maximum speed of 80 km/h (50 mph).

It is possible to set a lower speed as follows:

1. Drive the vehicle at the desired speed.
2. SL Press the Speed Limiter (SL) button on the dashboard. See "Controls Overview", page 7.
3. The speed limiter is now set at the current speed. A red arrow appears on the speedometer to indicate the speed limiter is engaged.
4. Within 10 seconds of pressing the SL button the speed can be adjusted using the +/- buttons on the right steering column switch.

NOTE: The cruise control will only operate if the preset speed is less or equal to the speed limiter setting.

Cruise Control

Operating the Cruise Control

WARNING: The cruise control only maintains the vehicle speed. The braking and vehicle direction is not controlled. The driver must remain responsible and in control of the vehicle at all times. Failure to obey these instructions can put the vehicle, occupants and other road users at risk of accident.

The cruise control switches are located on the steering column. See "Controls Overview", page 7.

The cruise control can only be engaged when the vehicle speed is 20 km/h (12 mph) or above. The system maintains vehicle speed without the driver using the accelerator pedal.

Cruise control must not be used in heavy traffic conditions or when it is important to control the variable speed of the vehicle.

When the vehicle is first started the cruise control is turned off.

1. Rocker switch **ON+**
2. Rocker switch **ON-**
3. **RES**

Turn the cruise control system on by pressing the **RES** button.

To indicate the cruise control is switched on, the cruise control notification light illuminates.

The following conditions must be met to engage the cruise control:

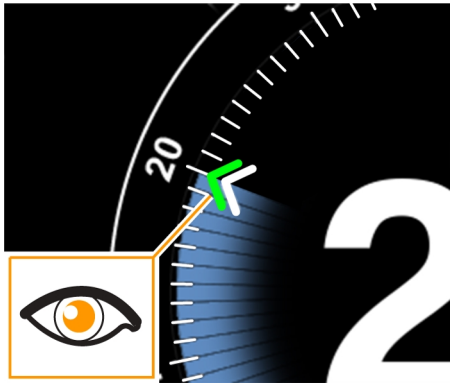
- Vehicle in motion with the drive (**D**) gear selected.
- The accelerator pedal must have been pressed after the vehicle has been started and the cruise control turned on.
- Vehicle speed 20 km/h (12 mph) or above.
- The brake pedal is not pressed.

Cruise Control

While driving at the desired speed, press and release the **ON+** button to engage the cruise control and maintain the current vehicle speed. The accelerator can now be released and speed will be maintained.

With the cruise control already set, pressing the **ON+** button again will increase the vehicle speed by 1 km/h or 1 mph increments. Pressing the **ON-** button will decrease the vehicle speed by 1 km/h or 1 mph increments.

To indicate the cruise control is engaged, the cruise control notification light illuminates. A green arrow also appears on the speedometer at the set speed.



To disengage the cruise control press the **RES** button again. The previous speed setting will be stored in the memory until the vehicle is switched off.

The cruise control is also disengaged when:

- Operating the brake pedal.
- Operating the accelerator pedal for more than 30 seconds (requesting a greater speed than the cruise control is set at).

To resume cruise control at the previously set speed, press the **RES** button with the cruise control system switched on.

To turn off the cruise control system, press and hold the **RES** button for 3 seconds. This function will operate whether the cruise control is engaged or disengaged.

Air Suspension

Electronic Control Air Suspension

The Electronic Control Air Suspension (ECAS) enables the vehicle to be raised or lowered to a stable position to aid loading and unloading. The adjustments are made using the remote control located by the drivers seat.

The remote control can be removed from the stowage bracket for use outside of the vehicle.

Operating the ECAS

Turn the ignition on. See "Ignition Modes", page 39.

Press button **(2)** to select the rear axle adjustment. The indicator light **(1)** illuminates to confirm this selection.

To cancel the selection press the button again.

Air Suspension

Press and hold the button **(8)** to raise the suspension and button **(7)** to lower the suspension.

Momentarily press button **(5)** to restore the suspension to normal height.

Pressing button **(6)** stops any movement of the suspension system.

Suspension Level Memory Settings

⚠ CAUTION: The vehicle suspension must be set back to normal height before the vehicle is driven. Failure to obey this precaution can cause serious damage to the vehicle.

The suspension height level can be memorised so the pre-set suspension level can be used again when required.

To set the suspension height memory do the following:

1. Move the suspension to the desired height as described in Operating the ECAS section above.
2. Press and hold the button **(6)** while pressing either button **(3)** or **(4)** at the same time.
3. Release button **(3)** or **(4)**.
4. Release button **(6)**.

The memory is now set. Selecting the axle and pressing either button **(3)** or **(4)** will activate the suspension to raise or lower to the pre-set height.

Differential Lock

Rear Differential Lock

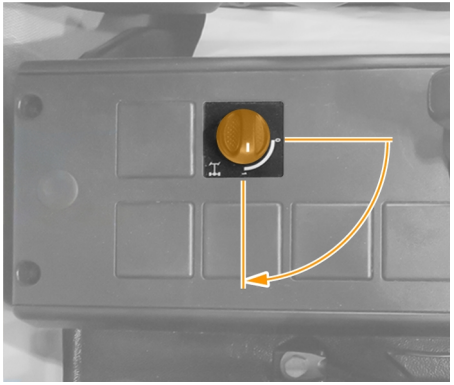
The rear differential lock is used to assist traction on slippery surfaces.

CAUTION: Obey the precautions that follow when using the differential lock:

- The differential lock must only be used on slippery surfaces.
- Do not engage the differential lock while the wheels are slipping.
- Vehicle handling characteristics are reduced when using the differential lock. As soon as loss of grip is restored and normal driving resumes, disengage the differential lock.

Failure to obey the precautions can cause serious damage to the vehicle.

Engaging the Differential Lock



The differential lock switch is located in the centre console.

With the vehicle stationary, engage the differential lock by rotating the switch to position **(1)**.

When the differential lock is engaged the warning light on the instrument panel illuminates.

Drive with care while the differential lock is engaged.

Differential Lock

Disengaging the Differential Lock

Once the slippery road condition has been passed, disengage the differential lock:

While maintaining vehicle speed, rotate the differential lock switch to position **(0)**.

Release the accelerator momentarily, then resume normal driving speed.

NOTE: If the differential lock fails to disengage, make a change in direction of travel to eliminate any stress on the differential.

Audible Vehicle Alert

Operating the Reverse Warning Alarm

The reversing alarm switch is located in the central dashboard controls. See "Dashboard Controls", page 8.

Press the alarm switch to deactivate the alarm during vehicle reversing manoeuvres. The switch LED indicator illuminates when the switch is active.

Press the alarm switch again to activate the alarm during vehicle reversing manoeuvres.

Climate Control System

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7.1.1 Heating and Ventilation 75

7.2 Air Vents 77

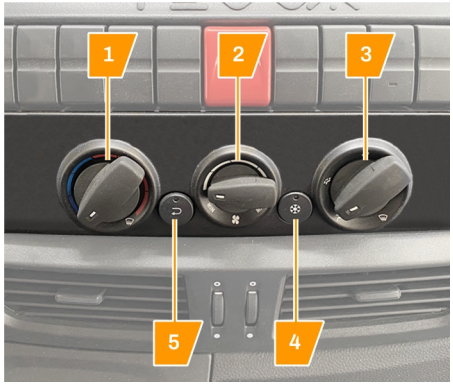
7.2.1 Air Vents 77

Climate Control System
Heating and Ventilation

Heating and Ventilation

To operate the heater to produce hot air, press the heater button. See "Dashboard Controls", page 8.

The heater button should be used in conjunction with rotating the temperature control to the hot air temperature position.



1. **Temperature:** Rotate the control clockwise to increase (red) air temperature. Rotate counterclockwise to decrease (blue) air temperature.
2. **Fan speed:** Rotate the control clockwise to increase fan speed or counter-clockwise to decrease fan speed.
3. **Air distribution:**

Rotate the control to this position to direct airflow to the windscreen.

Rotate the control to this position to direct airflow to the windscreen and the lower vents.

Rotate the control to this position to direct airflow from the lower vents.

Rotate the control to this position to direct airflow from the central, side and lower vents.

Rotate the control to this position to direct airflow from the central and side vents.

4. **Air conditioning:** Press to activate the air conditioning. Press the button again to deactivate the air conditioning. The switch LED indicator illuminates when the switch is active.

   As well as cooling, an important feature of air conditioning is air dehumidification. Use the air conditioning to clear misting of the windscreen.

   NOTE: It is recommended to operate the air conditioning for at least 10 minutes per month. This ensures the system is kept in optimum condition.

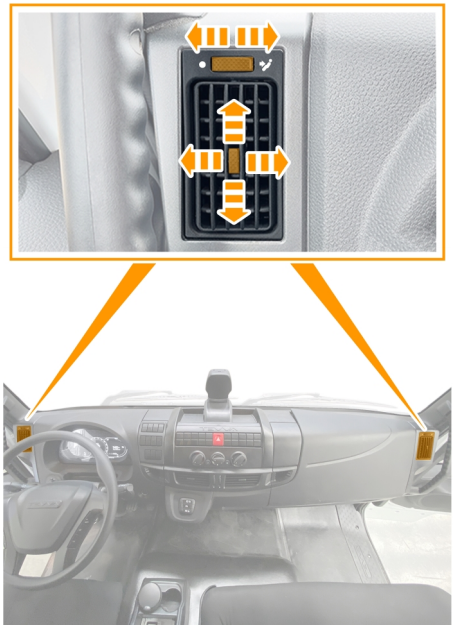
5. **Air recirculation:** Press to activate the air recirculation. When the air recirculation is activated external air is prevented from entering the cabin. Press the button again to deactivate air recirculation. The switch LED indicator illuminates when the switch is active.

   NOTE: Selecting air recirculation for extended periods of time may cause the windows to mist. The function is useful for areas of heavy pollution. Air recirculation can also be selected to aid quick heating and cooling of the cab.

Air Vents

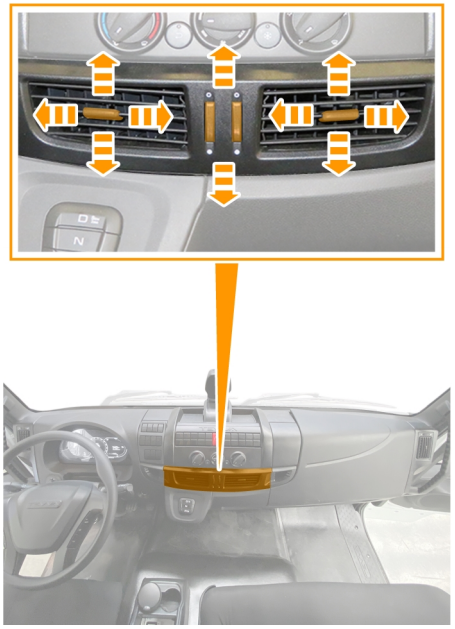
Air Vents

Outer Dashboard Air Vents



- Rotate the thumbwheel left to close the vent. Rotate the thumbwheel right to open the vent.
- Move the centre control to direct the air flow as required.

Central Dashboard Air Vents



- Rotate the thumbwheel down to close the vent. Rotate the thumbwheel up to open the vent.
- Move the centre control to the direct the air flow as required.

Air Vents

Side Window Vents

When the cab door is closed and the heater fan is on, air is emitted from the door trim vents to prevent the side windows misting.

The vents are not adjustable.

Infotainment

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Infotainment
Audio and Media

Infotainment Safety

WARNING: Make sure that any media devices are stored securely while the vehicle is in motion. Any loose objects are potential hazards during sudden manoeuvres, emergency braking situations or accidents.

WARNING: Sustained exposure to high sound levels, greater than 85 decibels, can damage hearing.

WARNING: Switch off the phone in areas with a high explosion risk, e.g., filling stations, fuel storage areas, or chemical factories. Further high explosion risks are found where the air contains fuel vapour, chemicals, or metal dust. The phone could trigger an explosion or cause a fire.

WARNING: Always store the phone securely. In an accident, loose items can cause injury.

WARNING: The functioning of cardiac pacemakers or hearing aids may be impaired when the phone is in use. Check with a doctor or the device's manufacturer whether any such devices that the vehicle's occupants are using are sufficiently protected against high-frequency energy.

WARNING: Even when using the Bluetooth® wireless technology hands-free feature, using the phone while driving is dangerous. The use of a phone diverts the driver's attention from the traffic situation. When using the phone, stop at an appropriate place where other vehicles are not endangered or inconvenienced.

WARNING: Drivers should talk on the phone only when it is safe to do so and when such use does not distract the driver from the road.

WARNING: Drivers should never text message, access social media, check emails, or search the internet while driving. Using any of the these features while driving diverts attention from the road.

CAUTION: Read the manufacturer's instructions for any device before it is connected to the media system. Make sure that the device is suitable. Comply with any instructions regarding connection and operation. Failure to do so may result in damage to the vehicle's media system or the media device.

CAUTION: It is recommended not to use a hard disc drive via the USB link. The devices are not designed for invehicle use and may be damaged.

Audio and Media

Infotainment Overview

WARNING: Make sure the relevant safety warnings and cautions have been read and understood before operating the audio, media and phone features. See "Infotainment Safety", page 80.

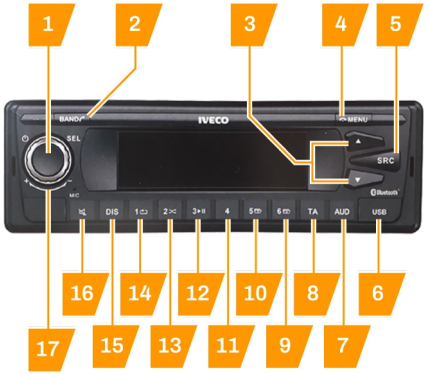
NOTE: The media system plays MP3, WMA, M4A, FLAC, AAC, and WAV files. Other formats are available.

The audio media unit is located on the driver's side, in the overhead console.

The media system can playback audio from a connected portable media source.

A portable media device can be connected via:

- USB connection. See "Connecting a Media Device", page 86.
- Bluetooth® connection. See "Bluetooth®", page 86.



Audio and Media

Audio and media buttons and dials:

1. Power button:
   - Long press to switch the auto/media system on or off.
   - Short press for confirming some settings options, when the system is operational.
2. **BAND** button:
   - Short press to move between the radio source channels.
   - Long press to confirm or delete Bluetooth® options.
   - Connected phone mode: Short press to answer an incoming call.

   NOTE: An additional incoming call answer option can be operated via the steering wheel controls. See "Steering Wheel Controls", page 25.

3. Seek up and down buttons:
   - FM radio mode: Short press to seek to the next or previous frequency. Long press to enable manual seek, system automatically moves to the next or previous station.
   - DAB radio mode: Short press to seek to the next or previous station.
   - USB or Bluetooth® mode: Short press to move to the next or previous track. Long press to enable the fast forward/fast rewind function.

   NOTE: Additional seek up and down control options can be operated via the steering wheel controls. See "Steering Wheel Controls", page 25.

4. **MENU** button:
   - Long press to access the main settings options.
   - FM or DAB radio mode: Short press to access the automatic scan frequency function.
   - USB mode: Short press to access the browser menu.
   - Connected phone mode: Short press to reject a call.

   NOTE: An additional call rejection option can be operated via the steering wheel controls. See "Steering Wheel Controls", page 25.

5. **SRC** button: Press the source button to change between available radio station channels and any connected media devices.

   NOTE: An additional source control option can be operated via the steering wheel controls. See "Steering Wheel Controls", page 25.

6. **USB**: Socket for connecting a media device. See "Connecting a Media Device", page 86.
7. **AUD** button: Press for audio settings menu.
8. **TA** button: Press to switch the traffic announcement option on or off.
9. Preset 6 and folder up button:
   - FM or DAB radio mode: Long press to store a currently tuned frequency. Short press to select a stored frequency.
   - USB mode: Short press to select and open the next stored folder.

10. Preset 5 and folder down button:
    - FM or DAB radio mode: Long press to store a currently tuned frequency. Short press to select a stored frequency.
    - USB mode: Short press to select and open the previous stored folder.
11. Preset 4: FM or DAB radio mode. Long press to store a currently tuned frequency. Short press to select a stored frequency.
12. Preset 3 and Pause or Play button:
    - FM or DAB radio mode: Long press to store a currently tuned frequency. Short press to select a stored frequency.
    - USB or Bluetooth® mode: Short press to pause playback. Short press again to resume playback.
13. Preset 2 and Shuffle button:
    - FM or DAB radio mode: Long press to store a currently tuned frequency. Short press to select a stored frequency.
    - USB mode: Short press to select the shuffle option. Consecutive short presses change options from, All, Current and Off.
14. Preset 1 and Repeat button:
    - FM or DAB radio mode: Long press to store a currently tuned frequency. Short press to select a stored frequency.
    - USB mode: Short press to select the repeat option. Consecutive short presses change options from, Current, All and Off.
15. **DIS** button: Short press to display the playing information of the current radio station or connected media source.
16. **Mute** button: Short press to mute the volume of the audio unit. Short press to un-mute.

    NOTE: An additional mute control option can be operated via the steering wheel controls. See "Steering Wheel Controls", page 25.

17. Selector rotary dial: Rotate to adjust the volume level.

    NOTE: When selecting some settings options rotate the dial to scroll through the available menu options.

    NOTE: Additional volume control options can be operated via the steering wheel controls. See "Steering Wheel Controls", page 25.

Further information on all audio and media operations can be found in the Radio DAB Operating Instructions manual.

Infotainment Settings

WARNING: Make sure the relevant safety warnings and cautions have been read and understood before operating the audio, media and phone features. See "Infotainment Safety", page 80.

System settings allow for adjustment of audio and media regardless of the selected source.

To adjust the settings options:

1. Long press the **MENU** button.
2. Scroll through the settings options using the rotary dial.
3. Short press the power button to select desired setting option.
4. Scroll through the settings sub menu options using the rotary dial.
5. Short press the power button to select desired sub menu setting option.
6. Press the seek down button to return to a previous page.
7. Short press the **MENU** button to exit the settings options or wait 10 seconds for the system to automatically return to audio screen.

For information on the audio unit controls see "Infotainment Overview", page 81.

Further information on all audio and media operations can be found in the Radio DAB Operating Instructions manual.

RDS Radio

WARNING: Make sure the relevant safety warnings and cautions have been read and understood before operating the audio, media and phone features. See "Infotainment Safety", page 80.

The radio is equipped with a Radio Data System (RDS), which enables the audio unit to receive extra information with normal FM radio signals.

NOTE: Not all FM radio stations broadcast RDS information.

Further information on all RDS radio settings and options can be found in the Radio DAB Operating Instructions manual.

DAB Radio

WARNING: Make sure the relevant safety warnings and cautions have been read and understood before operating the audio, media and phone features. See "Infotainment Safety", page 80.

The radio supports Digital Audio Broadcasting (DAB), which enables the audio unit to receive extra information and have additional selection options to those available on FM stations.

Further information on all DAB radio settings and options can be found in the Radio DAB Operating Instructions manual.

Making Calls

WARNING: Make sure the relevant safety warnings and cautions have been read and understood before operating the phone features. See "Infotainment Safety", page 80.

To make a call via the audio unit:

1. Pair the phone to the audio unit. See "Pairing a Phone", page 87.
2. On pairing the phone, **CONTACTS DOWNLOADS** is displayed on the audio unit screen and the Bluetooth® icon flashes. When the Bluetooth® icon stops flashing, downloading of the contacts is complete.
3. Long press the **BAND** button on the audio unit.
4. Use the rotary selector dial to scroll to the **CONTACTS** option.
5. Short press the power button to confirm the selection.
6. Use the rotary selector dial to scroll to the first letter of the contact.
7. Short press the power button to confirm the selection.
8. Use the rotary selector dial to scroll through and Identify the required contact from the displayed list.
9. Short press the power button to confirm the selection.

NOTE: Check the correct contact and number are displayed.

10. Short press the power button to commence the call.
11. To end the call, short press the **MENU** button.

For information on the audio unit controls see "Infotainment Overview", page 81.

Further information on all phone calling options can be found in the Radio DAB Operating Instructions manual.

Connecting a Media Device

WARNING: Make sure the relevant safety warnings and cautions have been read and understood before operating the audio, media and phone features. See "Infotainment Safety", page 80.

NOTE: Use the cable supplied with the media device to connect to the USB socket.

NOTE: A USB hub cannot be used to connect more than one USB device to the audio unit.

Portable media devices can be connected to the audio unit, located in the overhead console.

- Release the capping on the audio unit for access to the USB socket.
- Connect the USB device into the available USB socket.

The audio system automatically displays **USB** when the portable media device is connected.

The audio system will perform a compatibility check of the connected device.

Following reading of the device:

- If the device is compatible, play will commence automatically.
- If the device is not compatible an error message will be displayed.

Further information on USB activation and operation can be found in the Radio DAB Operating Instructions manual.

Bluetooth®

WARNING: Make sure the relevant safety warnings and cautions have been read and understood before operating the audio, media and phone features. See "Infotainment Safety", page 80.

NOTE: Some device's require the Bluetooth® wireless technology device pairing feature to be set as authorised or trusted in order to automatically connect. Refer to the device's operating instructions for further information.

Media and Phone Connections

NOTE: The audio system can store the connection data for a maximum of five Bluetooth® devices.

The vehicle's audio and media system features Bluetooth® and can wirelessly stream audio files from external devices with Bluetooth®, such as mobile phones.

Many mobile phones on the market now have Bluetooth® technology, but not all of them are fully compatible with the vehicle. For compatibility, refer to Radio DAB Operating Instructions manual.

To activate a Bluetooth® compatible device:

1. Long press the **MENU** button.
2. Use the rotary selector dial to scroll to **BT ON/OFF** option.
3. Short press the power button to confirm the selection.
4. Select **ON** from the on-screen options and short press the power button to confirm.

For information on the audio unit controls see "Infotainment Overview", page 81.

Pairing a Phone

WARNING: Make sure the relevant safety warnings and cautions have been read and understood before operating the phone features. See "Infotainment Safety", page 80.

NOTE: The process of pairing and connecting with the vehicle, from the phone, varies depending on the type of phone used.

Pairing and connecting a phone for the first time:

1. Activate Bluetooth® on the phone to be paired.
2. Long press the **BAND** button on the audio unit.
3. Select **PAIR DEVICE** from the available menu and short press the power button of the audio unit.
4. The audio unit should display the Bluetooth® radio device name: **Radio DAB** and the Bluetooth® icon should start flashing on the audio unit screen.
5. The name **Radio DAB** should be discovered on the phone screen.
6. An identical five digit PIN should be displayed on both the audio unit and phone screens.
7. Select **Confirm** on the phone to complete the pairing of the two devices.

For information on the audio unit controls see "Infotainment Overview", page 81.

Further information on available options, after a phone has been paired to the audio unit, can be found in the Radio DAB Operating Instructions manual.

Media and Phone Connections

Disconnecting a Device

WARNING: Make sure the relevant safety warnings and cautions have been read and understood before operating the audio, media and phone features. See "Infotainment Safety", page 80.

To cancel the pairing and connection of a device:

1. Long press the **BAND** button.
2. Scroll through the settings options using the rotary dial to **DELETE DEVICE**.
3. Short press the power button to confirm selection.
4. Scroll through the paired devices using the rotary dial.
5. Short press the power button to select the device to be removed.
6. Use the rotary dial to select from the options **DELETE** or **CANCEL**.
7. When option selected, short press the power button to confirm.
8. Short press the **MENU** button to exit the settings options or wait 10 seconds for the system to automatically return to audio screen.

For information on the audio unit controls see "Infotainment Overview", page 81.

Further information on all audio and media settings options can be found in the Radio DAB Operating Instructions manual.

Storage

9.1 Cabin Storage 90

9.1.1 Storage Compartment 90

9.2 Auxiliary Power Sockets 94

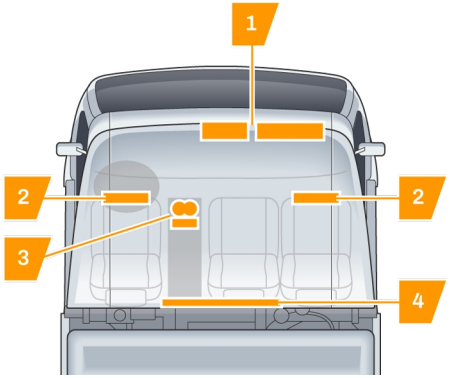
9.2.1 Auxiliary Power Sockets 94

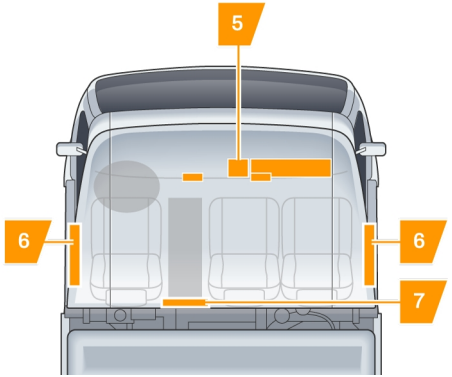
Cabin Storage

Storage Compartment

WARNING: Make sure that any items stored in the vehicle are secure and cannot move. If the vehicle is involved in an accident, or is subject to sudden braking or a change of direction, loose items can cause serious injury.

WARNING: Do not remove items from, or place items in, the storage areas while driving. Driver distraction can lead to accidents, potentially causing serious injury or death.



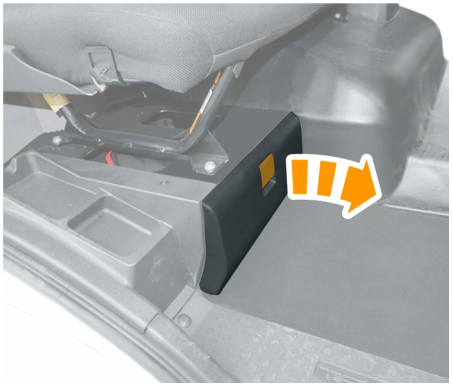


Storage
Cabin Storage

Storage Compartment Locations

1. Overhead console storage compartments.
   - Pull the release handle to open the passenger storage compartment.

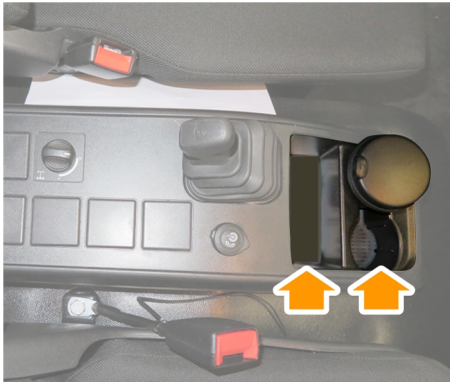
2. Under seat storage compartments.
   - The under seat storage compartments are fitted under both the driver and passenger seats. Pull the release handle to open.



Cabin Storage

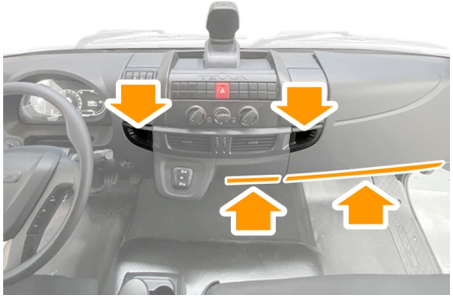
3. Cup holders and storage bin.

WARNING: Do not drink while driving. Driver distraction can lead to accidents, potentially causing serious injury or death.



4. Hanging rail.

5. Dashboard storage and document compartments.



Cabin Storage

6. Door storage compartments.
   - The door storage compartments are fitted to both the driver and passenger doors.

   NOTE: Depending on vehicle specification, additional storage maybe provided above the door speaker.

7. Cabin rear storage compartments.

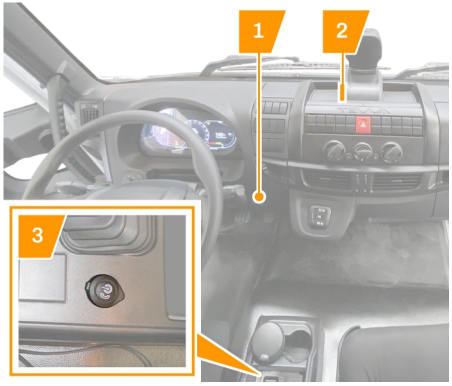
Auxiliary Power Sockets

Auxiliary Power Sockets

CAUTION: Only use approved accessories. Using any other equipment may damage the vehicle's electrical system and/or cause battery discharge. If in any doubt, contact a retailer/authorised repairer.

CAUTION: It is recommended to run the electric motor when using accessories for long periods. Failure to do so can discharge the battery.

NOTE: The number of power sockets fitted is dependent on the vehicle's specification. The sockets can be used to power approved accessories that use a maximum of 120 Watts.



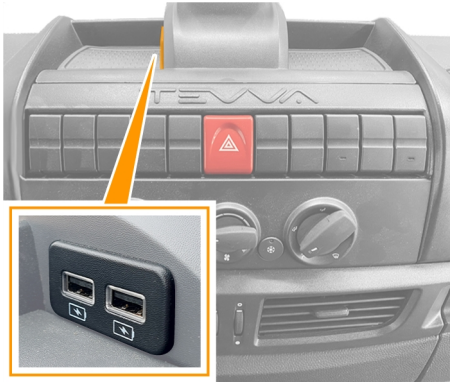
Auxiliary Power Socket Locations

1. Cigar lighter.

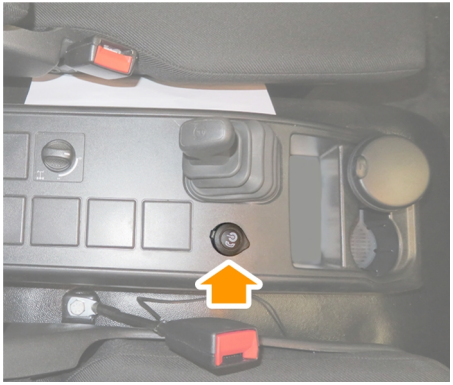
Auxiliary Power Sockets

2. USB sockets located on the upper section of the dashboard.

   NOTE: The USB sockets can be used for supplying power or charging.



3. The 12V power socket, located in the centre console.



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Front Grille

Opening and Closing the Front Grille

Opening the Front Grille

CAUTION: Before you open the front grille make sure the wipers are off and in the park position. Do not operate the wipers with the grille open. This can cause damage to the grille or wipers.

CAUTION: Open and close the grille using two hands on the bottom edge. Opening and closing the grille with one hand can twist and damage the grille.

NOTE: The front grille is equipped with pneumatic struts and will stay open once moved into the open position.

To open the front grille, hold the lower edge of the grille and lift.

The grille opens in the direction shown.

Closing the Front Grille

WARNING: Risk of crush injury. Keep persons and body parts away from the grille as it is lowered. Failure to obey the precaution can cause severe injury.

To close the grille, hold the lower edge of the grille and pull down until fully closed.

Cab Tilting

Tilting and Lowering the Cab

Cab Tilting

WARNING: Apply the parking brake before you tilt the cab. Tilting the cab without the parking brake applied can allow the vehicle to move suddenly. Sudden vehicle movement can cause serious injury or death.

WARNING: Risk of serious injury. When you tilt the cab make sure no persons are in front of the cab. Contact with the tilting cab can cause serious injury.

WARNING: Do not open the doors with the cab tilted. The doors can be difficult to hold and drop without warning. Doors opening with force can cause serious injury.

NOTE: When you tilt the cab never leave the cab in an intermediate position. Always fully tilt or fully lower the cab.

NOTE: The cab is fully tilted when the cab makes its last movement under the action of its own weight.

NOTE: If the hydraulic system is faulty the cab may be tilted mechanically (e.g. using a crane) after removing the gearbox connection bar and releasing the cab.

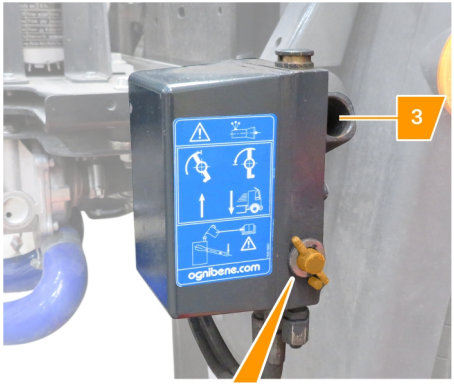
Before you tilt the cab open the front grille. See "Opening and Closing the Front Grille", page 97.

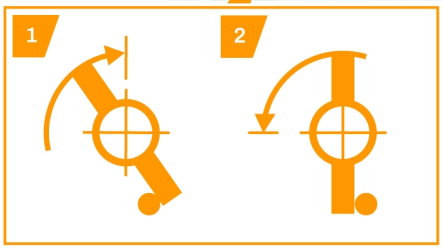
The cab tilting lever is located by the passenger seat. See "Emergency Equipment", page 133.

Before you tilt the cab prepare the vehicle as follows:

- Make sure the ignition is off and engage the parking brake. See "Parking Brake", page 43.
- It is recommended to chock the wheels to secure the vehicle.
- Remove or safely stow all loose and heavy objects in the cab.
- Make sure the vehicle is positioned in an area that there is room for the cab to tilt in front of the vehicle.

Cab Tilting





To tilt the cab, proceed as follows:

1. Make sure the parking brake is applied and exit the vehicle. Go to the cab tilting control located on the right side of the vehicle.
2. Rotate the lever to the cab raising position **(1)** as shown on the plate.
3. Insert the lever in the hand-operated pump **(3)**.
4. Operate the lever to raise the cab.

Cab Lowering

WARNING: Risk of crush injury. Keep persons and body parts away from the cab as it is lowered. Failure to obey the precaution can cause severe injury or death.

To lower the cab, proceed as follows:

1. Rotate the lever to the cab lowering position **(2)** as indicated on the plate.
2. Insert the lever in the hand-operated pump **(3)**.
3. Operate the lever until the cab is fully lowered.

Make sure the tipped cab symbol on the instrument panel is not illuminated.

Routine Maintenance

Service Requirements

Keeping to the recommended service intervals is important to help protect the on-going validity of the manufacturer's warranty. Routine servicing must be carried out throughout the life of the vehicle to maintain reliability and optimum efficiency.

The recommended service interval is every 40,000 miles or 12 months, which ever comes first. The exact content of the service varies with use and mileage of the vehicle. Refer to the authorised repairer for the correct service content for the vehicle.

Service	Interval
1	40,000 miles, 12 months or 800 operating hours
2	80,000 miles, 24 months or 1600 operating hours
3	120,000 miles, 36 months or 2400 operating hours
4	160,000 miles 48 months or 3200 operating hours
5	200,000 miles, 60 months or 4000 operating hours

Vehicle Checks

WARNING: Check the tyres for condition and pressure regularly and before long journeys. Failure to maintain the tyre pressures can increase the risk of tyre failure.

The following items should be checked for condition and operation regularly and before long journeys:

- Exterior lights. See "Lighting Control", page 28.
- Horn. See "Operating the Horn", page 37.
- Direction indicators. See "Direction Indicators", page 29.
- Windscreen wipers. See "Cleaning the Exterior", page 128.
- Windscreen washers. See "Unblocking the Windscreen Washer Jets", page 112.
- Warning lights. See "Warning and Notification Lights", page 22.
- Seat belts. See "Using the Seat Belts", page 18 and "Cleaning the Interior", page 129.
- Coolant levels. See "Fluid Filler Locations", page 101.
- Screen washer fluid levels. See "Washer Fluid Top Up", page 111.
- Brake fluid. See "Brake Fluid Level Check", page 109.
- Tyre pressures and condition. See "Tyre Care and Wear", page 114 and "Fluids and Capacities", page 141.
- Operate the air conditioning system. See "Heating and Ventilation", page 75.
- Drain the air brake tanks of moisture. See "Brake System Air Tanks", page 112.
- Battery capacity status. See "Instrument Panel Overview", page 8.

Also check for fluid deposits underneath the vehicle that may indicate a leak.

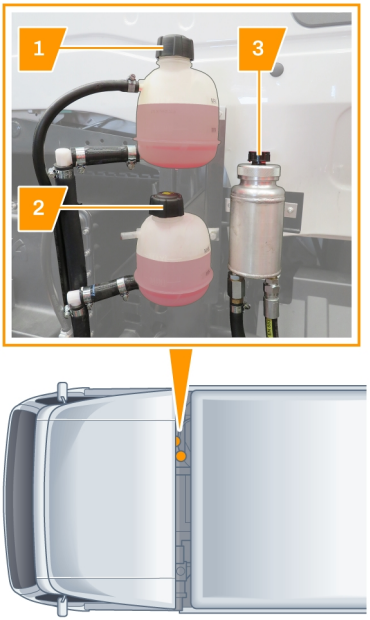
NOTE: Water drips from condensation when the air conditioning system is in operation are normal.

Fluid Filler Locations

For all fluid specifications see "Fluids and Capacities", page 141.

Drive System Coolant and Power Steering Fluid

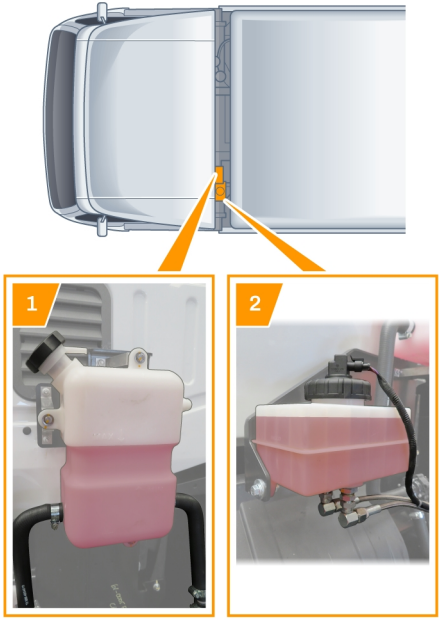
The drive system coolant and power steering fluid reservoirs are located behind the cab:



1. Inverter coolant reservoir.
2. Drive motor coolant reservoir.
3. Power steering reservoir.

Heater Coolant and Brake Fluid

The heater coolant and brake fluid reservoirs are located behind the cab:



1. Heater coolant reservoir.
2. Brake fluid reservoir.

Washer Fluid

The washer fluid reservoir is located under the front grille. See "Opening and Closing the Front Grille", page 97.

Heater Coolant Level Check

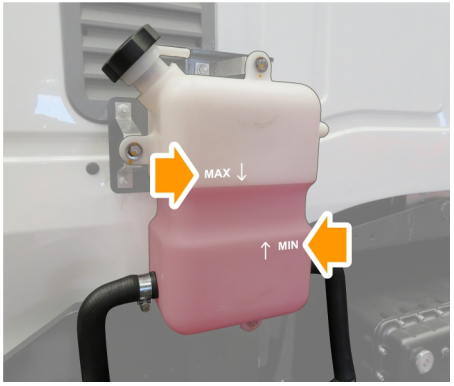
⚠ CAUTION: Do not operate the heater system without the correct level of coolant. This can result in serious damage to the heater system.

⚠ CAUTION: If persistent coolant loss is noticed, do not drive the vehicle and seek qualified assistance.

The heater coolant reservoir is located behind the cab. See "Fluid Filler Locations", page 101.

Check the coolant level when the system is cold.

To check the coolant level:



1. Tilt the cab. See "Tilting and Lowering the Cab", page 98.
2. Check the coolant level is between the **MIN** and **MAX** marks on the coolant reservoir.
3. Lower the cab. See "Tilting and Lowering the Cab", page 98.

Heater Coolant Top Up

WARNING: Antifreeze is poisonous and can be fatal if swallowed. Keep containers sealed and out of the reach of children. If consumption is suspected, seek medical attention immediately.

WARNING: Do not check the coolant with the system hot. There is a risk of contact with hot fluid which can cause serious injury

WARNING: If the coolant comes into contact with the skin or eyes, rinse immediately with plenty of water.

CAUTION: Antifreeze damages painted surfaces. Any spillages must be removed immediately with car shampoo and water.

ENVIRONMENTAL NOTE: Coolant should not be discharged into the environment. Antifreeze can contaminate soil or waterways. Antifreeze should be disposed of in accordance with local environmental laws.

The heater coolant reservoir is located behind the cab. See "Fluid Filler Locations", page 101.

Adjust the coolant level when the system is cold.

Antifreeze contains corrosion inhibitors to protect the heater system. Do not add pure water to the system without mixing it with antifreeze. The coolant should be mixed to provide frost protection to -35°C.

Only use approved coolant. See "Fluids and Capacities", page 141.

To add coolant to the coolant reservoir:

1. Tilt the cab. See "Tilting and Lowering the Cab", page 98.
2. Rotate the filler cap (1) counterclockwise to remove it from the reservoir.
3. Add coolant until the level reaches the **MAX** mark (2) on the reservoir.

4. Install the reservoir cap.
5. Lower the cab. See "Tilting and Lowering the Cab", page 98.

Inverter Coolant Level Check

⚠ CAUTION: Do not drive the vehicle without the correct level of coolant. This can result in serious damage to the cooling system.

⚠ CAUTION: If persistent coolant loss is noticed, do not drive the vehicle and seek qualified assistance.

The inverter coolant reservoir is located behind the cab. See "Fluid Filler Locations", page 101.

Check the coolant level when the system is cold.

To check the coolant level:

1. Tilt the cab. See "Tilting and Lowering the Cab", page 98.
2. Check the coolant level is between the **MIN** and **MAX** marks on the coolant reservoir.
3. Lower the cab. See "Tilting and Lowering the Cab", page 98.

Inverter Coolant Top Up

⚠ **WARNING: Antifreeze is poisonous and can be fatal if swallowed. Keep containers sealed and out of the reach of children. If consumption is suspected, seek medical attention immediately.**

WARNING: Do not check the coolant with the system hot. There is a risk of contact with hot fluid which can cause serious injury

WARNING: If the coolant comes into contact with the skin or eyes, rinse immediately with plenty of water.

CAUTION: Antifreeze damages painted surfaces. Any spillages must be removed immediately with car shampoo and water.

ENVIRONMENTAL NOTE: Coolant should not be discharged into the environment. Antifreeze can contaminate soil or waterways. Antifreeze should be disposed of in accordance with local environmental laws.

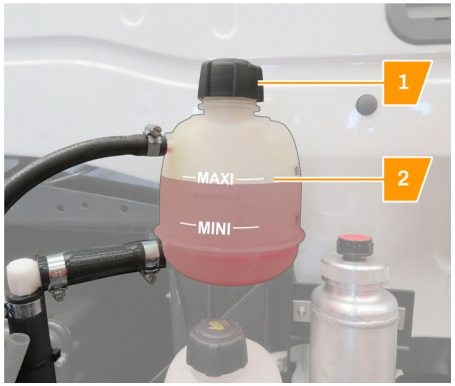
The inverter coolant reservoir is located behind the cab. See "Fluid Filler Locations", page 101.

Adjust the coolant level when the system is cold.

Antifreeze contains corrosion inhibitors to protect the heater system. Do not add pure water to the system without mixing it with antifreeze. The coolant should be mixed to provide frost protection to -35°C.

Only use approved coolant. See "Fluids and Capacities", page 141.

To add coolant to the coolant reservoir:



1. Tilt the cab. See "Tilting and Lowering the Cab", page 98.
2. Rotate the filler cap (1) counterclockwise to remove it from the reservoir.
3. Add coolant until the level reaches the **MAX** mark (2) on the reservoir.
4. Install the reservoir cap.
5. Lower the cab. See "Tilting and Lowering the Cab", page 98.

Drive Motor Coolant Level Check

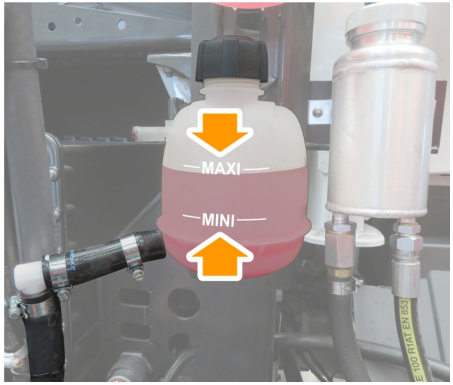
CAUTION: Do not drive the vehicle without the correct level of coolant. This can result in serious damage to the cooling system.

CAUTION: If persistent coolant loss is noticed, do not drive the vehicle and seek qualified assistance.

The drive motor coolant reservoir is located behind the cab. See "Fluid Filler Locations", page 101.

Check the coolant level when the system is cold.

To check the coolant level:



1. Tilt the cab. See "Tilting and Lowering the Cab", page 98.
2. Check the coolant level is between the **MIN** and **MAX** marks on the coolant reservoir.
3. Lower the cab. See "Tilting and Lowering the Cab", page 98.

Drive Motor Coolant Top Up

WARNING: Antifreeze is poisonous and can be fatal if swallowed. Keep containers sealed and out of the reach of children. If consumption is suspected, seek medical attention immediately.

WARNING: Do not check the coolant with the system hot. There is a risk of contact with hot fluid which can cause serious injury

WARNING: If the coolant comes into contact with the skin or eyes, rinse immediately with plenty of water.

CAUTION: Antifreeze damages painted surfaces. Any spillages must be removed immediately with car shampoo and water.

ENVIRONMENTAL NOTE: Coolant should not be discharged into the environment. Antifreeze can contaminate soil or waterways. Antifreeze should be disposed of in accordance with local environmental laws.

The drive motor coolant reservoir is located behind the cab. See "Fluid Filler Locations", page 101.

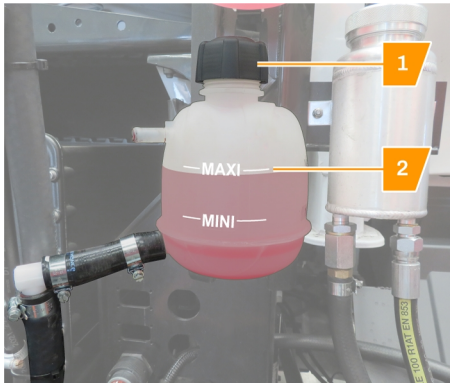
Adjust the coolant level when the system is cold.

Antifreeze contains corrosion inhibitors to protect the heater system. Do not add pure water to the system without mixing it

with antifreeze. The coolant should be mixed to provide frost protection to -35°C.

Only use approved coolant. See "Fluids and Capacities", page 141.

To add coolant to the coolant reservoir:



1. Tilt the cab. See "Tilting and Lowering the Cab", page 98.
2. Rotate the filler cap (1) counterclockwise to remove it from the reservoir.
3. Add coolant until the level reaches the **MAX** mark (2) on the reservoir.
4. Install the reservoir cap.
5. Lower the cab. See "Tilting and Lowering the Cab", page 98.

Power Steering Fluid Level Check

⚠ CAUTION: Do not operate the steering without the correct level of fluid. This can result in serious damage to the steering system.

⚠ CAUTION: If persistent fluid loss is noticed, do not drive the vehicle and seek qualified assistance.

The power steering fluid reservoir is located behind the cab. See "Fluid Filler Locations", page 101.

Check the fluid level when the system is cold.

To check the fluid level:

1. Tilt the cab. See "Tilting and Lowering the Cab", page 98.
2. Remove the reservoir cap.
3. Check the fluid level is between the **MIN** and **MAX** marks indicated on the reservoir label.

4. If the fluid level is low top up as required. See "Power Steering Fluid Top Up", page 108.
5. Install the reservoir cap and fully tighten.
6. Lower the cab. See "Tilting and Lowering the Cab", page 98.

Power Steering Fluid Top Up

⚠ **WARNING: Power steering fluid is toxic. Keep containers sealed and away from children. If fluid is accidentally consumed, seek medical help straight away.**

⚠ **WARNING: Do not check the fluid with the system hot. There is a risk of contact with hot fluid which can cause serious injury**

⚠ **WARNING: If the fluid comes into contact with the skin or eyes, rinse immediately with plenty of water.**

⚠ **WARNING: Power steering fluid is highly flammable. Fire, naked flames and smoking are prohibited when handling power steering fluid.**

The power steering fluid reservoir is located behind the cab. See "Fluid Filler Locations", page 101.

Adjust the fluid level when the system is cold.

Only use approved fluids and lubricants. See "Fluids and Capacities", page 141.

To add fluid to the power steering reservoir:

1. Tilt the cab. See "Tilting and Lowering the Cab", page 98.
2. Remove the reservoir cap.
3. Add fluid until the level is on the **MAX** mark indicated on the reservoir label.
4. Install the reservoir cap and fully tighten.
5. Lower the cab. See "Tilting and Lowering the Cab", page 98.

Brake Fluid Level Check

WARNING: Do not drive the vehicle without the correct level of brake fluid. This can cause poor braking performance or brake failure.

CAUTION: If persistent fluid coolant loss is noticed, do not drive the vehicle and seek qualified assistance.

The brake fluid reservoir is located behind the cab. See "Fluid Filler Locations", page 101.

If the level in the brake fluid reservoir drops excessively low a red brake warning light will illuminate on the instrument panel. See "Warning and Notification Lights", page 22.

To check the fluid level:

1. Tilt the cab. See "Tilting and Lowering the Cab", page 98.
2. Check the fluid level aligns with the **MAX** mark on the brake fluid reservoir.
3. Lower the cab. See "Tilting and Lowering the Cab", page 98.

Brake Fluid Top Up

WARNING: Brake fluid is toxic. Keep containers sealed and away from children. If fluid is accidentally consumed, seek medical help straight away.

WARNING: If the fluid comes into contact with the skin or eyes, rinse immediately with plenty of water.

CAUTION: Brake fluid damages painted surfaces. Any spillages must be removed immediately with car shampoo and water.

CAUTION: Only use brake fluid from an sealed airtight container. Contaminated fluid will affect brake system performance and must not be used.

The brake fluid reservoir is located behind the cab. See "Fluid Filler Locations", page 101.

Only use approved fluids and lubricants. See "Fluids and Capacities", page 141.

To add fluid to the brake fluid reservoir:

1. Tilt the cab. See "Tilting and Lowering the Cab", page 98.
2. Rotate the filler cap counterclockwise to remove it from the reservoir.

NOTE: Clean the filler cap and reservoir before opening to prevent contamination of the fluid.

3. Add fluid until the maximum level indicator is reached.
4. Install the reservoir cap and fully tighten.
5. Lower the cab. See "Tilting and Lowering the Cab", page 98.

Washer Fluid Top Up

WARNING: Some windscreen washer products are flammable. Do not allow windscreen washer fluid to come into contact with exposed flames or sources of ignition, as this can cause a fire or explosion.

WARNING: Washer fluid is toxic. Keep containers sealed and away from children. If fluid is accidentally consumed, seek medical help straight away.

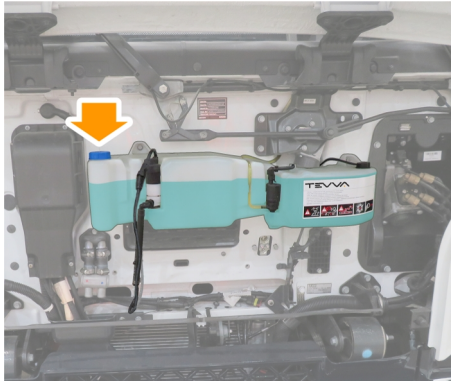
WARNING: In cold weather, failure to use a windscreen washer fluid with frost protection could result in impaired vision and increase the risk of a vehicle crash.

NOTE: Add washer fluid to the reservoir all year round. Concentration of the washer solution should be mixed to suit the outside temperature.

NOTE: Makes sure the washer fluid has anti-limescale properties. Limescale can cause windscreen washer system failure.

Only use approved washer fluid. See section "Fluids and Capacities", page 141.

The washer fluid reservoir is located under the front grille. See "Fluid Filler Locations", page 101.



To top up the washer fluid:

1. Open the reservoir cap.

   NOTE: Clean the filler cap and reservoir before opening to prevent contamination of the washer fluid.

2. Add washer fluid to the reservoir until the reservoir is full.
3. Close the reservoir cap.

Washer Fluid Mixing Ratio

Prepare the washer fluid in the following quantities for all season use:

External temperature	Washer fluid ratio (in parts)	Water ratio (in parts)
-35°C	1	-
-20°C	1	1
-10°C	1	2
0°C	1	6
Summer	1	10

Brake System Air Tanks

Maintenance

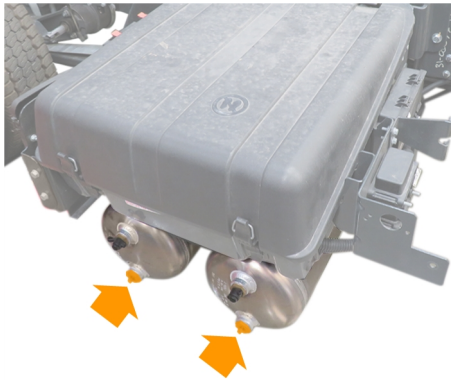
The air tanks are maintenance free provided the following instructions are complied with:

- If the tanks are painted a preparatory base coat must be applied.
- Do not cross thread any fittings or devices fitted to the tanks.
- Only use alcohol-free products to clean the tanks.
- Periodically discharge the moisture from the tanks.
- Do not heat treat or weld the tanks.

If the air tanks become dented, replace the tanks.

Draining the Air Tanks

Periodically operate the drain valves to remove condensation from the air tanks:



Unblocking the Windscreen Washer Jets

⚠ **WARNING: Do not operate the windscreen washer jets during the unblocking procedure. Windscreen washer fluid can cause irritation to the eyes and skin.**

If a windscreen washer jet becomes blocked, insert a thin strand of wire into the washer jet to remove the blockage.

NOTE: Make sure the wire is completely removed after unblocking the washer jet.

Wheels and Tyres

Tyre Inflation

WARNING: Do not drive the vehicle if a tyre is incorrectly inflated. A tyre in such condition could cause an accident resulting in serious injury or death

CAUTION: Do not twist or bend the tyre valves when you attach a pressure hose or gauge, as damage may result.

Check the tyre valve is secure and in good condition. Do not tamper or modify the tyre valve.

Do not exceed the maximum weight per axle when the vehicle is fully loaded.

- Check the tyre pressures weekly.
- Check the tyre pressures when the tyre is cold.
- Do not under or over inflate the tyres as this can cause excessive wear and premature tyre failure.

For tyre pressures see "Tyre Pressures", page 140.

Recommended Tyres

Winter Tyres

WARNING: Winter tyres can have a lower speed rating than the original tyres installed to the vehicle. Do not drive the vehicle in a way that exceeds the speed limit of the tyre rating.

CAUTION: The tyre pressures stated are for original tyres and may not be the same for winter tyres. Always refer to the tyre manufacturers pressure recommendations for replacement winter tyres.

NOTE: In some countries legislation exists that require the use of winter tyres during specified periods of the year.

NOTE: Winter tyres should be fitted to all the wheels of the vehicle. It is recommended they should be the same type and dimension on every wheel.

If the use of winter tyres is necessary, always use a tyre with the equivalent size and rating as the original tyres installed to the vehicle. Using a tyre of a different size can affect the safety and performance of the vehicle.

To drive on snow covered or muddy road surfaces use winter type tyres. Winter tyres can be identified by the Mud and Snow (M+S) markings on the tyre sidewall.

Snow Chains

WARNING: Snow chains are designed for use in heavy snow conditions only. If you use snow chains in other conditions, loss of traction can occur which could cause an accident resulting in serious death or injury

CAUTION: When snow chains are installed reduce your driving speed accordingly. Driving at excessive speeds with snow chains installed can damage the vehicle and affect handling

NOTE: Obey local legislation regarding the use and carrying of snow chains.

When snow chains are installed obey the following precautions:

- Snow chains should only be installed to the driving wheels.
- Make sure the snow chains do not damage the suspension or other vehicle components.
- To prevent tyre damage, only drive with snow chains installed when there is snow on the road. Remove the snow chains as soon as possible when they are not needed for traction.
- Do not drive over objects such as steps, pavements or potholes with snow chains installed.
- For some types of snow chains the chain tension has to be checked after a short distance. Check the manufacturers instructions for details.
- Deactivate the ASR when driving on snow covered roads.
- Drive slowly at a moderate speed (below 50km/h). Do not accelerate or drive erratically allowing the wheels to slip which can cause the snow chains to break.

Tyre Care and Wear

Checking the Tyres

WARNING: Do not drive the vehicle if a tyre is damaged, excessively worn or incorrectly inflated. A tyre in such condition could cause an accident resulting in serious injury or death

WARNING: Do not contaminate the tyres with vehicle fluids or non approved cleaning products as they may cause damage to the tyres. A damaged tyre can fail and cause an accident resulting in serious injury or death

WARNING: Avoid driving in such a way that allows the wheels to spin. This can cause damage to the tyre structure. A damaged tyre can fail and cause an accident resulting in serious injury or death.

When the tyres are changed, make sure the tyre type, size and speed rating are the same for all the tyres fitted to the vehicle. Where possible, try to match the tyre make and tread pattern.

NOTE: The speed rating of a tyre may not be equal to the maximum speed of the vehicle. Do not drive the vehicle in a way that exceeds the speed limit of the tyre rating.

Wheels and Tyres

Tyre Wear

The tyres must be checked regularly for cracks, swelling, or objects caught in the tread pattern. If a tyre is damaged in any way it must be replaced. For tyre replacement, contact a retailer/authorised repairer.

Check the tyre wear. When the tyre has worn a wear indicators appear. The wear indicator is recognised by a continuous band of rubber across the tread pattern.

If the tyres pressure is low, the tyres wear on the outside of the tread pattern. If tyre the pressure is high, the tyres wear on the centre of the tread pattern. In the event that the front tyres are wearing abnormally on the edges of the tread pattern, the wheel alignment should be checked.

Auxiliary Battery

Auxiliary Battery Warning Symbols

	**WARNING: Batteries emit explosive gases. Do not allow sources of ignition near the battery.**
	**WARNING: Battery electrolyte can cause series harm to the eyes. Wear safety goggles when handling batteries to prevent battery electrolyte contacting the eye.**
	**WARNING: Risk of injury. Do not let childern near the battery.**
	**WARNING: Risk of injury. Batteries contain acid that is very corrosive and toxic. Wear suitable protective clothing when handling batteries. Contact with acid can cause serious burns. If clothes, skin or eyes comes into contact with battery acid, immediately remove contaminated clothing and flush the area with clean water. Seek medical advice immediately.**
	**WARNING: Before handling the auxiliary battery, read the operating instructions carefully to ensure correct and safe operation.**
	**WARNING: Risk of explosion. Batteries emit explosive gases and can explode without warning.**

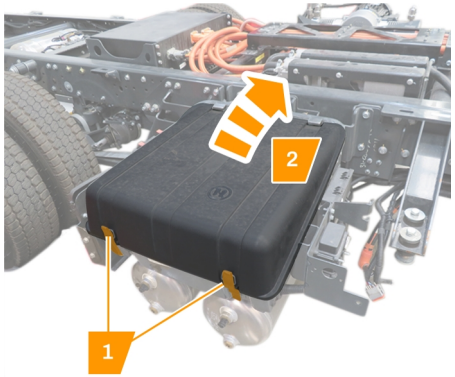
Starting the Vehicle with an External Power Source

Removing the Battery Cover

WARNING: Remove all metal jewellery before working on, or near, the battery. Never allow metal objects or vehicle components to come into contact with the battery terminals. Metal objects can cause sparks or short circuits, potentially resulting in an explosion. An explosion may cause serious injury or death.

NOTE: Access to the batteries may vary depending on the type of body the vehicle is equipped with.

The auxiliary batteries are located on the right side of the vehicle in front of the rear wheels.



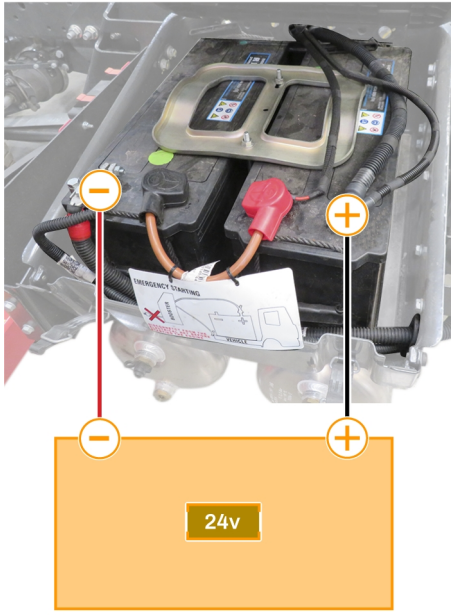
Auxiliary Battery

1. Release the battery cover securing clips.
2. Remove the battery cover from the battery compartment.

Connecting Jump Leads

⚠ CAUTION: Only attempt to start the vehicle from a 24v power source. Connecting a power source with any other rating can damage the vehicle electrical system.

⚠ CAUTION: Make sure the ignition is off before attempting to connect jump leads to the vehicle batteries.



Auxiliary Battery

To start the vehicle with jump leads carry out the following procedure:

1. Connect the positive jump lead (red lead) to the positive terminal on the donor vehicle.

   NOTE: If using another vehicle to provide power, refer to the Operator's Manual of that vehicle for the correct jump starting connections.

2. Connect the other end of the positive jump lead (red lead) to the disabled vehicle positive terminal.
3. Connect the negative jump lead (black lead) to the negative terminal on the donor vehicle.
4. Connect the other end of the negative jump lead (black lead) to the disabled vehicle negative terminal.

   NOTE: Make sure all jump lead electrical connections are secure.

5. Turn the donor vehicle on, or if a conventional internal combustion vehicle, start the engine.
6. Start the disabled vehicle as usual. See "Switching the Vehicle On", page 39.

   CAUTION: Do not drive the vehicle until the jump leads are disconnected.

7. Switch off the donor vehicle.
8. Disconnect the negative jump lead (black lead) from the disabled vehicle.
9. Disconnect the negative jump lead (black lead) from the donor vehicle.
10. Disconnect the positive jump lead (red lead) from the disabled vehicle.
11. Disconnect the positive jump lead (red lead) from the donor vehicle.
12. Refit the battery cover.

Connecting a Starting Aid

1. Connect the positive jump (red lead) of the starting aid to the positive battery terminal on the vehicle.
2. Connect the negative lead (black lead) of the starting aid to the positive battery terminal on the vehicle.
3. Switch the starting aid on.
4. Start the vehicle as usual. See "Switching the Vehicle On", page 39.
5. Switch the starting aid off.
6. Disconnect the negative jump (black lead) of the starting aid from the vehicle.
7. Disconnect the positive jump (red lead) of the starting aid from the vehicle.

High Voltage Battery

Maintaining the High Voltage Battery

This vehicle is propelled using two electric motors that require energy supplied by the high voltage battery.

The high voltage battery requires regular charging using an external power source. See "Charging the Vehicle", page 54.

Regenerative braking recovers energy when the vehicle is braking and charges the high voltage battery. See "Regenerative Braking", page 51.

If the vehicle is placed into long term storage, care must be taken with the high voltage battery to maintain optimum condition. See "Long Term Storage of the High Voltage Battery", page 119.

WARNING: Never disassemble, remove, or replace high voltage components. Tampering with the high voltage system can cause severe burns or electric shock, which may potentially result in serious injury or death.

WARNING: In the event of an accident, high voltage components can be exposed. Seek qualified assistance to make sure the vehicle is inspected and confirmed safe before the vehicle is driven again.

NOTE: The range of the high voltage battery can vary according to driving conditions. Driving at high speed or fast acceleration can consume more energy from the battery than driving with a more moderate style.

NOTE: The high voltage battery charge capacity can decrease in excessively cold or hot temperatures.

NOTE: Using high energy systems such as heating and air conditioning can cause the high voltage battery range to decrease. To gain the best range performance from the high voltage battery, use air conditioning and heating systems economically.

NOTE: The high voltage battery charge can gradually decrease if the vehicle is not driven.

Long Term Storage of the High Voltage Battery

A battery cell equalisation/balance must be completed weekly. This is done by using the standard battery charger and will automatically take place when left connected until the instrument panel displays a 100% charge status.

Fuses

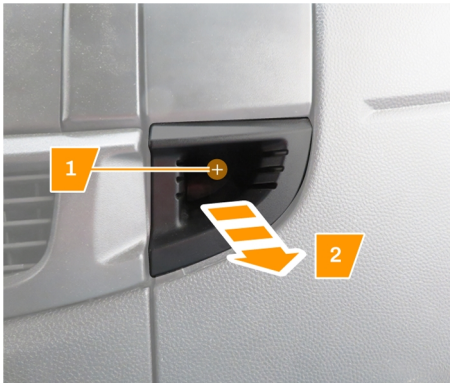
Fuse Locations

WARNING: Fuses and relays not detailed in this Operator's Manual should only be replaced by qualified persons.

The fuse box can be found behind a cover which forms part of the passenger's side dashboard.

To remove the fuse box cover:

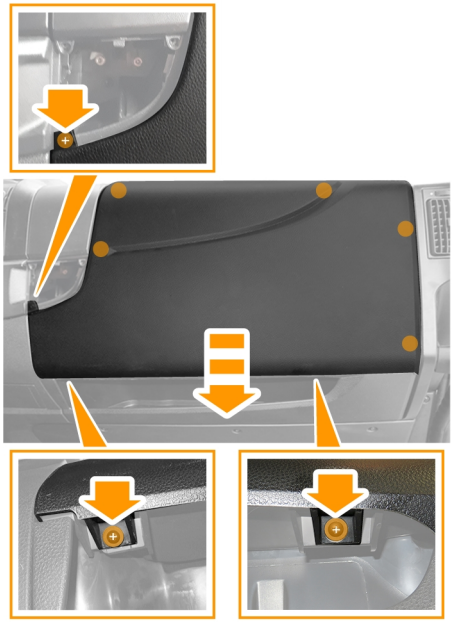
1.



- Remove the screw securing the passenger side document tray.
- Slide and remove the document tray.

NOTE: The document tray has a slide track to aid correct installation.

2.



- Remove the 3 fasteners securing the fuse box cover.
- Release the 5 trim panel fasteners and remove the fuse box cover.

NOTE: Record the fitted position of each fastener to aid correct installation.

Fuses

Replacing a Fuse

WARNING: Fuses and relays not detailed in this Operator's Manual should only be replaced by qualified persons.

WARNING: Incorrect modifications or repairs to the electrical equipment may result in damage to the vehicle's electrical system, can result in a fire and could possibly lead to serious injuries or death.

CAUTION: Always switch off the electrical system and the affected electrical circuit before replacing a fuse.

CAUTION: Fit approved replacement fuses of the same rating and type, or fuses of a matching specification. Using an incorrect fuse may result in damage to the vehicle's electrical system and can result in a fire.

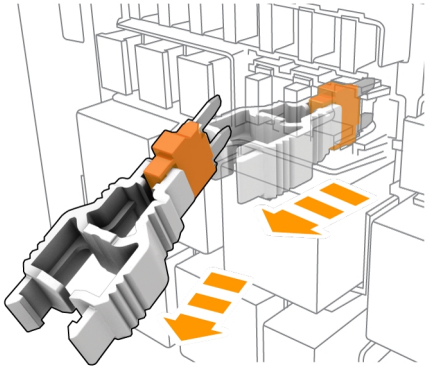
CAUTION: If the replacement fuse blows after installation, the system should be checked by a retailer.

NOTE: The displays of the fuses and relays relating to all systems provided by the manufacturer for the vehicle are described in the following pages. The fuses and relays described may not be operational on all vehicles, as they are dependent on the vehicle's market specification.

To replace a fuse:

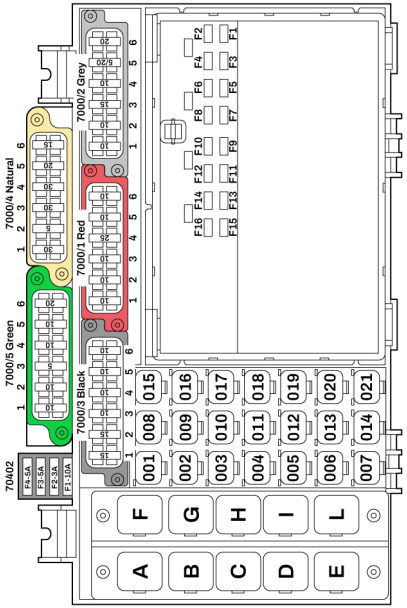
1. Make sure the ignition switch is in position **1**. See "Ignition Modes", page 39.
2. Remove the fuse box cover. See "Fuse Locations", page 120.
3. Remove the fuse.

NOTE: To aid with fuse removal, there is a pulling tool stored within the fuse box.



4. Check for a break in the wire within the fuse. If the wire within the fuse is broken, the fuse has blown and needs replacing.
5. Refit or replace the fuse, as appropriate. Make sure the fuse is pushed fully into its correct position.

Fuses



Fuse Holder 70000/1 (Red)

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
1	10	Red	Spare (Accessory compartment lighting)
2	10	Red	Spare (Medium roof lighting / Electrical hatch)
3	10	Red	Spare (Loading platform lighting)
4	25	White	Spare
5	10	Red	Hazard lights / Expansion module
6	10	Red	Heated seat (optional)

Fuse Holder 70000/2 (Grey)

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
1	10	Red	OBD connector
2	10	Red	Spare
3	15	Blue	Spare
4	10	Red	Heated windscreen / central locking / Tail lift
5	20	Yellow	ABS / EVSC
6	20	Yellow	Spare (Air conditioner)

Fuses

Fuse Holder 70000/3 (Black)

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
1	15	Blue	Expansion module
2	15	Blue	Expansion module
3	10	Red	Expansion module
4	10	Red	Expansion module
5	10	Red	Spare
6	10	Red	Spare

Fuse Holder 70000/4 (Natural)

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
1	30	Green	Electric cab tilt (optional)
2	5	Tan	Electric cab tilt (optional)
3	30	Green	Heated windscreen (optional)
4	30	Green	Heated windscreen (optional)
5	20	Yellow	Headlight wash (optional)
6	15	Blue	Heated mirrors

Fuse Holder 70000/5 (Green)

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
1	10	Red	Headlights
2	10	Red	Headlights
3	5	Tan	SWI control unit
4	10	Red	LDWS control unit
5	10	Red	Refrigerator (optional)
6	20	Yellow	Central locking

Fuse Holder 70402 Satellite

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
1	10	Red	Electric cab tilt (optional)
2	3	Beige	Electric cab tilt (optional)
3	5	Tan	Heated windscreen (optional)
4	5	Tan	Heated windscreen (optional)

IBC3 Fuses

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
1	10	Red	Reverse lights / Headlight levelling
2	20	Yellow	
3	10	Red	VCM control unit
4	5	Tan	Tachograph / Instrument cluster (IC)
5	20	Yellow	ABS control unit
6	20	Yellow	Trailer ABS unit (optional)
7	20	Yellow	DDM control unit / PDM control unit

Fuses

Fuse number	Rating (Amps)	Fuse colour	Circuits protected
8	20	Yellow	Starter relay
9	10	Red	Bodybuilder connection / FMS connection
10	20	Yellow	Horn
11	20	Yellow	Voltage reducer / radio receiver / tachograph
12	10	Red	Braking system air dryer resistor / heated mirror relay
13	10	Red	ECAS control unit
14	10	Red	Cigarette lighter / Power socket
15	5	Tan	Bodybuilder connection / trailer ABS connection / FMS connection / radio receiver
16	20	Yellow	Power windows (without PDM / DDM)

Mini Relays

Mini relay code	Description
A	Start up
B	+15 Power supply activation
C	Vehicle diagnostics (+15 consent from diagnostic tool)
D	Horn
E	+15 Supply
F	Spare / Empty (Ramp buzzer (optional))
G	Spare / Empty (Start-up prevention with tail lift engaged (optional))
H	Spare / Empty (Heated mirrors)
I	Spare / Empty
L	Spare / Empty (Heated windscreen timer (optional))

Micro Relays

Micro relay code	Description
001	Spare / Empty (Courtesy light (medium roof only))
002	Spare / Empty (Headlight wash (optional))
003	Spare / Empty
004	TGC (Main current contactor) activation (TGC ON) (optional)
005	TGC deactivation (TGC OFF) (optional)
006	Spare / Empty
007	ECAS command (optional)
008	ECAS command
009	ECAS command
010	ECAS command
011	Spare / Empty
012	Reverse lights
013	Spare / Empty

Fuses

Micro relay code	Description
014	Spare / Empty
015	Spare / Empty
016	Spare / Empty (Tail lift command relay (optional))
017	Spare / Empty (Tail lift engagement relay (optional))
018	Spare / Empty
019	Spare / Empty
020	Spare / Empty
021	Expansion module (optional)

Lights

Interior Lights

WARNING: Make sure the vehicle is switched off and the parking brake is applied before replacing any of the interior lights.

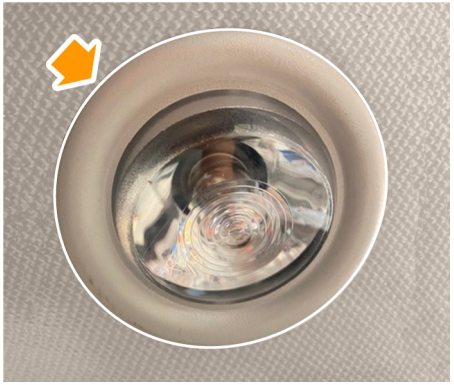
WARNING: Make sure the bulbs have cooled before attempting to touch them. Hot bulbs may cause serious injuries.

CAUTION: Always replace bulbs with the same type and specification as the original bulb.

CAUTION: To avoid damage to the vehicle, take care when attempting to remove components. If in any doubt, contact your retailer or seek qualified advice.

For information on the location of interior lights, see "Interior Lighting", page 30.

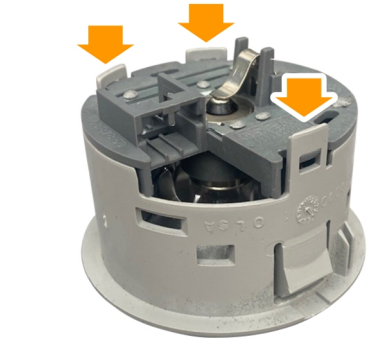
Door Entry Light Bulb Replacement



CAUTION: Be careful with plastic trim as it can damage and break easily.

Lights

1. Using a suitable tool, remove the external trim of the light.
2. Lower the light from the panel and disconnect the light electrical connector.
3. Release the 3 clips and remove the bulb holder from the light body.



4. Replace the bulb as required.

To install a bulb, reverse the removal process. Refer to the vehicle specifications chapter for the correct bulb type. See Section "Bulb Specifications", page 141.

Central Light Bulb Replacement

1. Using a suitable tool, lever the rear edge of the lens to release the lens from the light.

2. Replace the bulbs as required.
3. Reposition the lens to the light.
4. Carefully push the lens onto the light to engage the clips.

Refer to the vehicle specifications chapter for the correct bulb type. See Section "Bulb Specifications", page 141.

Cleaning and Care

Cleaning the Exterior

CAUTION: Make sure to read and comply with all warnings and product instructions supplied with any cleaning products

CAUTION: Do not use cleaning products containing solvents, methanol or hydrocarbons. These can damage painted surfaces and plastics.

CAUTION: Substances which are corrosive, such as bird droppings and salt, can damage the vehicle's paintwork and should be removed as soon as possible.

Regularly wash the vehicle body with mild soap and water.

Consider the frequency of washing depending on these factors:

- Driving in areas of high atmospheric pollution.
- Frequent driving on roads that have winter treatment (de-icing salt).
- Parking under trees that produce a resinous substance.

Take care when washing the vehicle. Obey the following precautions:

- Do not use brushes with hard bristles or dirty cloths that could damage the painted surface and plastic parts.
- Carefully dry the vehicle to avoid water spots.
- Do not wash the vehicle after prolonged exposure to the sun, this may cause the paint to lose its shine.
- Let the vehicle dry in open air. Avoid closed spaces immediately after washing.

Vehicles in Severe Climates

Vehicles that are used in areas where there is exposure to coastal and winter driving environments, frequent and careful washing is recommended. Use extra care when cleaning the lower and chassis sections of the vehicle.

NOTE: Regularly inspect the vehicle for the formation of rust. Immediately remove any oxidation and apply corrosion protection or paint.

Cleaning Plastic Parts

The external plastic parts are cleaned using the same washing procedure as the exterior of the vehicle. If further cleaning is required the use of specific cleaning products is recommended following the manufacturers instructions.

Cleaning the Windows

Regularly clean all windows inside and out using a window cleaning solution. An automotive glass cleaner is recommended. Do not use products that could scratch the glass or alter the glass transparency.

Cleaning the Wiper Blades

CAUTION: When cleaning the wiper, always lift the wiper blade by the wiper arm only. Lifting the wiper can cause damage to the wiper blade.

Cleaning and Care

Regular cleaning of the wiper blades is necessary to prevent contamination of the wiper rubber. If a wiper rubber becomes contaminated it will not clear the screen of water efficiently.

CAUTION: Do not use excessive pressure when cleaning the wiper blade.

Heavy contamination of the wiper blade should be removed using a soft, damp sponge or cloth.

If the wiper blades do not clear the screen properly after cleaning, replace the wipers.

NOTE: Only install replacement wiper blades that are identical to the original specification.

NOTE: Replace the wiper blades in accordance with the manufacturer's instructions.

Cleaning the Interior

Dust can be removed from the seats and fabric with a soft brush. More intensive cleaning can be carried out with dry foam cleaners and suitable solvents. Do not use water, or spray water on the interior as this may damage electrical components. Make sure the cab has good ventilation after cleaning to allow the interior to dry.

WARNING: Do not use cleaning products that are inflammable or give off vapours in a confined space. Make sure there is adequate ventilation before using these type of products. Failure to obey the precautions can cause harm to health.

CAUTION: Do not use cleaning products that contain Chlorate solvents such as Trichloroethylene or Hyperchlorite etc. As these may damage the interior.

Cleaning the Sunvisors

Use a neutral soap and water solution only to wipe down the surface of the sunvisor.

Do not clean the sun visor when dry to prevent scratching of the surface.

CAUTION: Do not use cleaning products that contain aromatic solvents, ketone ester, methanol, hydrocarbons and denatured alcohol. These substances can damage the plastic trim.

CAUTION: Do not apply decals, labels, films or any PVC based product to the sun visor. These can harm the plastic trim.

Cleaning the Displays

Use a soft, clean and dry cloth to wipe the display screens.

CAUTION: Take care with display screens. Do not use sharp objects to clean, this can cause scratches and damage to the display screen.

Cleaning and Care

CAUTION: Do not use cleaning products that contain alcohol or benzene on or near the instrument panel. Products such as these can cause damage to the instrument panel display.

Cleaning the Seat Belts

To clean the seat belts, hand wash them with water and a neutral soap, rinse them with a cloth and fresh water. Leave the seat belt to dry out of direct sunlight.

CAUTION: When cleaning the seat belt observe the following:

- Do not use strong detergents, bleach, dyes or any other chemical that could weaken the seatbelt material.
- Avoid getting the seat belt reel or mechanism wet. The seat belt operation is not guaranteed if water enters the seat belt mechanism.

Failure to obey the precautions could result in the seat belt not functioning correctly and can cause serious injury to the vehicle occupants in the event of a collision.

Towing and Recovery

Roadside Assistance

For roadside assistance contact the Tevva service provider network.

Recovering the Vehicle

WARNING: Make sure that the vehicle recovery or transportation is carried out by suitably qualified personnel and that the vehicle is secured correctly. If the vehicle is not secured correctly, it may fall off and potentially lead to an accident.

CAUTION: The vehicle must not be towed on all four wheels without the transmission system disconnected. Doing so can result in serious damage to the vehicle drivetrain.

Towing the Vehicle

If the vehicle is to be towed, use the screw-in towing eye. The towing eye is located in the emergency tool kit. See section "Emergency Equipment", page 133.

Proceed as follows:

1. Turn the ignition key to position (1) to release the steering lock. See "Ignition Modes", page 39.
2. Release the towing eye cover from the front of the vehicle.

3. Attach the towing hook by rotating it clockwise into the towing eye threads. Make sure the towing hook is fully tightened.

Towing and Recovery

The vehicle can be towed for a very short distance. For example, to remove the vehicle from a dangerous situation. It must be towed at speeds of less than 8 km/h (5 mph). To tow the vehicle any distance the prop shaft must be removed from the rear axle.

On vehicles equipped with Advanced Emergency Braking Systems (AEBS), the system must be manually disabled before attempting to tow the vehicle.

If the vehicle is to be towed with the front axle raised, make sure the ignition is turned off or the Anti-locking Brake System (ABS) fuse is removed.

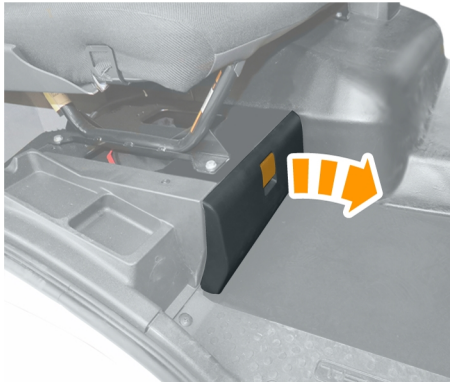
WARNING: Under certain circumstances if the power steering system should fail, the effort to turn the steering is considerably higher than normal. Consider the additional effort required to steer the vehicle. Failure to obey this warning can cause accident and risk of injury to the occupants of the vehicle and other road users.

NOTE: When towing a loaded vehicle, always use a rigid tow bar and do not attempt to lift the vehicle.

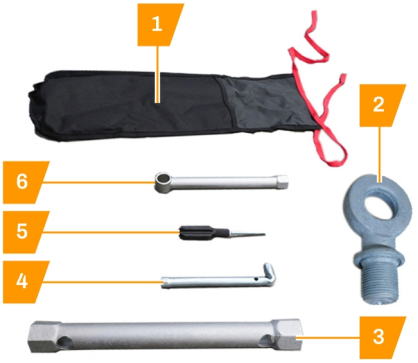
Emergency Equipment

Tool Kit

The vehicle is supplied with a tool kit located in a storage compartment underneath the front passenger seat.



Operate the catch to open the storage compartment.



The emergency tool kit contains the following items:

1. Storage bag.
2. Towing eye.
3. Double hex wrench 30mm x 32mm.
4. Double elbow wrench 10mm x 13mm.
5. Double ended flat and cross head screwdriver.
6. Wrench.

Cab Tilting Lever

The lever to operate the cab tilt is located between the door frame and the passenger seat.

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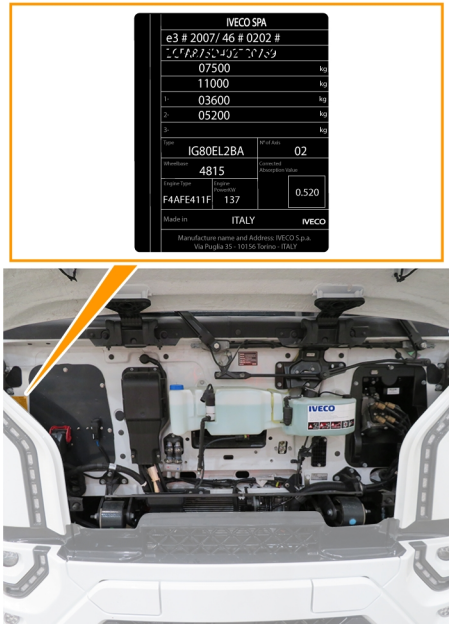
Specifications
Label Information

Vehicle Identification Number

The Vehicle Identification Number VIN plate is located under the front grille. See "Opening and Closing the Front Grille", page 97.



Product Identification Code

The Product Identification Code (PIC) label is located under the front grille. See "Opening and Closing the Front Grille", page 97.

NOTE: The VIN number is also stamped on the chassis rail behind the right front wheel.

Specifications
Label Information

Type Designation

The type designation plate is located in the right side door frame.

Paint Code

The paint code is located under the front grille. See "Opening and Closing the Front Grille", page 97.

Label Information

Axle Load Plate

The axle load plate is located on the lower edge of the windscreen in front of the driver.

The axle load plate reminds the driver to restore tyre pressures to the correct operating values. See section "Fluids and Capacities", page 141 for tyre pressures.

When the wheels have been removed, the wheel nut re-tightening interval is also displayed.

Speed Limiter Plate

The speed limiter plate is located on the lower edge of the windscreen in front of the driver.

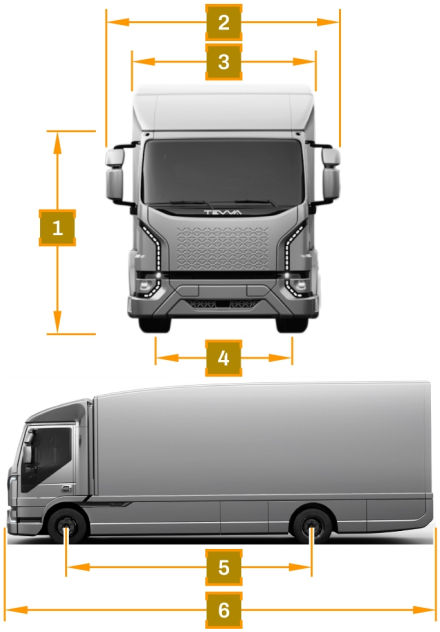
Label Information

The speed limiter plate instructs the driver of the speed the limiter is set at.

The vehicle speed limit is set at 80km/h (50 mph). The speed limit can be set to a lower speed using the speed limiter function. See "Speed Limiter Plate", page 138.

Specifications

Vehicle Dimensions



1	Height	2601 mm
2	Width including mirrors	2800 mm
3	Body width	2311 mm
4	Track width (measured to centre of tyres)	Front - 1847 mm Rear - 1684 mm
5	Wheelbase	4815 mm
6	Length	8634 mm
-	Ground clearance	177 mm
-	Turning circle	Kerb to kerb - 16.28 m Wall to wall - 17.6 m
-	Approach angle	13.4°
-	Departure angle	9.6°

Weights

Gross vehicle weight	7500 kg
Kerb weight	4558 kg
Maximum payload	2942 kg

NOTE: Kerb weight is inclusive of the driver (75 kg).

NOTE: Maximum payload is inclusive of the body weight fitted.

Tyre Pressures

The tyre pressures indicated refer to cold tyres with an external temperature of approximately **20°C**.

Front	80 psi 5.52 bar
Rear	80 psi 5.52 bar

Specifications

Bulb Specifications

Lights	Type	Rating
Door Entry Interior Lights	Round type	24V 10W
Central Interior Light	Round type	24V 21W

Fluids and Capacities

Description	Specification	Capacity
Brake fluid	DOT 4	2 litres
Windscreen washer fluid	Washer fluid with antifreeze properties	8 litres
Antifreeze coolant	Ethylene glycol based with OAT.	Heater circuit 5 litres Motor circuit 15 litres Inverter circuit 15 litres
Air conditioning refrigerant	R134a	0.440 kg
Air conditioning oil	ND Oil 8 (PAG 46)	30g
Power steering fluid	Dextron 3	2 litres
Rear wheel hubs and Differential oil	SAE 75W-90	5.6 litres
Transmission oil	Mobile Lube I SHC 75W-90	0.8 litres

High Voltage Battery Specifications

Specification	All Variants
Storage type	Lithium iron phosphate
Nominal voltage	365V
Useable energy	105 kW/h

High Voltage Charging Specifications

Specification	All Variants
Supply type	A/C charging only
Charger type	Type 2, modes 2 and 3
Max kW	22kW 3-phase
	7kW Single-phase
Max A/C Current	32A 3-phase
	16A Single-phase
Max Voltage	440V

Specifications
Type Approval

Declarations of Conformity

Declaration of Conformity for DAB Radio - Part Number 5802566419

The manufacturer, Robert Bosch Car Multimedia GmbH, states that the DAB radio for is compliant with directive 2014/53/EU. The complete text of the EU declaration of conformity is available from the website: http://cert.bosch-carmultimedia.net.

Band Frequency	Radiated Power (EIRP)
2400 Mhz - 2480 Mhz	Bluetooth® <5mW

Declaration of Conformity for Radar Sensor

The manufacturer, ADC Automotive Distance Control Systems GmbH, states that the ARS 3- B radio complies with Directive 2014/53/UE. The complete text of the EU declaration of conformity is available from the website: http://continental.automotive-approvals.com.

Band Frequency	Radiated Power (EIRP)
76 GHz - 77 GHz	1 W - 30 dBm

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